

PUBLIC REVIEW

**Long Beach Utilities Department/
Los Angeles Department of Water and Power
Haynes Generating Station Recycled Water
Pipeline Project**

**Initial Study/
Mitigated Negative Declaration**

January 17, 2024

Lead Agency:

Long Beach Utilities Department
1800 East Wardlow Road
Long Beach, CA 90807

Prepared by:

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ACRONYMS AND DEFINITIONS

AB	Assembly Bill
AASHTO	American Association of State Highway and Transportation Officials
AQ	Air Quality
AQMP	Air Quality Management Plan
BERD	Built Environment Resource Directory
bgs	below ground surface
BMP	best management plan
CARB	California Air Resources Board
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CGP	Construction General Permit
CML&EC	cement mortar-lined and epoxy-coated
CNDDB	California Natural Diversity Database
CH ₄	methane
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CRHR	California Register of Historical Resources
DR	dimension ratio
EIR	Environmental Impact Report
EO	Executive Order
EOP	Emergency Operations Plan
ERIS	Environmental Risk Information Services
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
GHG	greenhouse gas
HDPE	high-density polyethylene
HGS	Haynes Generating Station
I-405	Interstate 405
in	inch
IPaC	Information for Planning and Consultation
IPCC	Intergovernmental Panel on Climate Change
IS	Initial Study
JFTB	Joint Forces Training Base
LACC	Los Angeles County Code
LACFCD	Los Angeles County Flood Control District

LADWP	Los Angeles Department of Water and Power
LBMC	Long Beach Municipal Code
LBUD	Long Beach Utilities Department
LST	localized significance threshold
LUP	Linear Underground Project
LUST	leaking underground storage tank
MLD	most likely descendant
MM	mitigation measure
MND	Mitigated Negative Declaration
MT	metric ton
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
N ₂ O	nitrous oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
OCFA	Orange County Fire Authority
OSHA	Occupational Safety and Health
PM ₁₀	particulate matter less than 10 microns
PM _{2.5}	particulate matter less than 2.5 microns
ppv	peak particle velocity
ROG	reactive organic gas
ROW	right-of-way
RW	recycled water
RWQCB	Regional Water Quality Control Board
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SBMC	Seal Beach Municipal Code
SFM	Sewer Force Main
SGR	San Gabriel River
SMARTS	Stormwater Multiple Application and Report Tracking System
SO	sulfur dioxide
SO _x	oxides of sulfur
SR 22	State Route 22
SWPPP	Stormwater Pollution Prevention Plan
U.S. EPA	Environmental Protection Agency

USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
VMT	vehicle miles traveled
VOC	volatile organic compound
WDID	Waste Discharger Identification
WSP	welded steel pipe

1 ENVIRONMENTAL CHECKLIST FORM

The following information is provided for the Long Beach Utilities Department (LBUD)/Los Angeles Department of Water & Power (LADWP) Haynes Generating Station (HGS) Recycled Water (RW) Pipeline Project to be located within the cities of Long Beach and Seal Beach, California. This checklist follows Appendix G of the CEQA Guidelines, as amended, to support an assessment of probable environmental impacts. The Long Beach Utilities Department is proceeding with a Haynes Generating Station Sewer Force Main (SFM) Project which will be constructed in the same vicinity as the HGS RW Pipeline Project. While the HGS SFM Project has independent utility, it may be constructed at the same time as the LBUD/LADWP HGS RW Pipeline Project.

I. Project Title:

LBUD/LADWP Haynes Generating Station Recycled Water Pipeline Project

II. Lead Agency Name and Address:

Long Beach Utilities Department
1800 East Wardlow Road
Long Beach, CA 90807

III. Contact Person and Phone Number:

Staff Contact:

Dennis Santos
Manager of Engineering
Long Beach Utilities Department
562-570-2325

IV. Project Location:

The proposed Project (Project) alignment is as follows:

Start: Intersection of Atherton Street and Studebaker Road in Long Beach, CA 90815

Route:

- South along Studebaker Frontage Road, Studebaker Road, Studebaker Access Road / State Route 22 (SR 22) off-ramp, and south to east along College Park Drive, crossing the San Gabriel River, in Long Beach, CA 90815
- East crossing the San Gabriel River and along College Park Drive, in Long Beach, CA 90815 and Seal Beach, CA 90740
- South and crossing beneath SR 22 to LADWP Haynes Generating Station in Seal Beach, CA 90740

End: LADWP Haynes Generating Station in Seal Beach, CA 90740

The Project location is also shown in Figure 1 and Figure 2.

V. Project Sponsor's Name and Address:

Long Beach Utilities Department
1800 East Wardlow Road
Long Beach, CA 90807

Los Angeles Department of Water and Power
4030 Crenshaw Blvd
Los Angeles, CA 90008
Attention: Katherine Rubin

VI. General Plan Designation:

Within the City of Long Beach, the Project work area (Figure 2) has the following land use designations (City of Long Beach, 2019):

- CC (Community Commercial)
- FCN (Founding and Contemporary Neighborhood)
- OS (Open Space)
- NSC-L (Neighborhood Serving Center or Corridor Low Density)

According to the Land Use Plan within the City of Long Beach’s Southeast Area Specific Plan (SEASP), the Project work area along roadways has the “Right-of-Way” land use designation. Properties and land adjacent to the Project work area have the land use designation: Right-of-Way/Caltrans Open Space (City of Long Beach, 2017).

The City of Long Beach GIS data was reviewed and no changes to the land use designations were found in the GIS data (City of Long Beach, n.d.)

Within the City of Seal Beach, roadways and roadway right-of-way do not have land use designations. Properties adjacent to the Project work area (Figure 2) within the City of Seal Beach have the following land use designations (City of Seal Beach, 2003b):

- Park
- Community Facility
- Light Industrial

The Project work area is within or under roads that have the following road system functional classifications (Caltrans, 2022):

- Local Road
 - Atherton Street, east of Studebaker Road (Long Beach)
 - Studebaker Frontage Road (Long Beach)
- Minor Collector
 - College Park Drive (Long Beach and Seal Beach)
- Major Collector
 - Anaheim Road, east of Studebaker Road (Long Beach)
- Minor Arterial
 - Atherton Street, west of Studebaker Road (Long Beach)
 - Anaheim Road, west of Studebaker Road (Long Beach)
- Other Principal Arterial
 - Studebaker Road (Long Beach)

- Other Freeway or Expressway
 - Studebaker Access Road / SR 22 off-ramp (Long Beach)
 - SR 22 (Long Beach and Seal Beach)

Within the City of Long Beach’s Mobility Element, roads are classified utilizing a context-sensitive approach (City of Long Beach, 2013). Thus, roads along the Project area do not have a functional classification system but rather are classified as the following:

- Minor Avenue
 - Atherton Street, west of Studebaker Road (Long Beach)
 - Anaheim Road, west of Studebaker Road (Long Beach)
- Major Avenue
 - Studebaker Road (Long Beach)
- Freeway
 - SR 22 (Long Beach)

VII. Zoning:

Within the City of Long Beach, the Project work area (Figure 2) has the following zoning designations (City of Long Beach, n.d.; City of Long Beach, 2021):

- CNA (Neighborhood Commercial Automobile-Oriented)
- PR (Public Right-of-Way Zone)
- R-1-N (Single-family Residential)
- SP-2-CMW (Specific Plan Channel/Marina/Waterway)
- SP-2-ROW (Specific Plan Right-Of-Way)

Within the City of Seal Beach, roadways and roadway right-of-way are not zoned.

Properties adjacent to the Project work area (Figure 2) within the City of Seal Beach have the following zoning designations (City of Seal Beach, 2010):

- OS-PR (Open Space Parks and Recreation)
- RHD-PD (Residential High Density-Planned Development)

VIII. Description of Project:

The Project would be constructed within previously disturbed areas supporting numerous existing structures and subsurface utilities, City and State roadways, and associated surface improvements (i.e., paving, landscaping, and above-ground utilities).

The purpose of the Project is to install a RW main to serve LADWP’s Haynes Generating Station located in the City of Long Beach, California. The Project would provide recycled water to the Haynes Generating Station to meet the needs of the future cooling process and to maximize the use of RW supply.

The Project would include construction of a contiguous RW pipeline composed of six segments of 12- to 24-inch (in) high-density polyethylene (HDPE) as described below and as depicted in Figure 3a and Figures 3b-3i (Carollo, 2022a & 2022b):

- Construction – new RW pipelines

A total of six new RW pipeline segments would be constructed within existing roadway right-of-way as follows:

- Within the City of Long Beach, a total of 1.30 miles of RW pipeline would be installed:
 - Segment RW 1-11. This segment would start at the connection with the existing LBUD RW supply pipeline located just immediately west of the intersection of Atherton Street and Studebaker Road. This segment would be constructed south from the intersection within the Studebaker Frontage Road until the road ends in a cul-de-sac (near E Anaheim Road) within the City of Long Beach (Figure 3b-3d).
 - Approximately 22 linear feet (ft) of 12-in HDPE Class dimension ratio (DR) 17 pipe, beginning at an existing LBUD 21-in diameter RW pipe within Atherton Street and terminating within the sidewalk on the southwest corner of Atherton Street and Studebaker Frontage Road within the road's right-of-way.
 - Approximately 2,712 linear ft of 24-in HDPE Class DR 17 pipe, beginning at the sidewalk of Atherton Street and Studebaker Frontage Road within the road's right-of-way and continuing south along the Studebaker Frontage Road to approximately E Anaheim Road.
 - Segment RW 1-10. This segment would begin at the end of Segment RW 1-11, where Studebaker Frontage Road ends in a cul-de-sac (near E Anaheim Road) and would be constructed within the road's right-of-way then within Studebaker Road to the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp within the City of Long Beach (Figure 3d-3f).
 - Approximately 1,440 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
 - Segment RW 1-12. This segment would begin at the end of Segment RW 1-10, near the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp and would be constructed within the existing Studebaker Access Road / SR 22 off-ramp ROW to near the intersection of Salida Ave and College Park Drive within the City of Long Beach (Figure 3f-3g).
 - Approximately 1,356 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
 - Segment RW 1-13. This segment would begin at the end of segment RW 1-12 near the intersection of Salida Ave and College Park Drive and would be constructed within College Park Drive to the west side of the College Park Drive bridge within the City of Long Beach (Figure 3g-3h).
 - Approximately 980 linear ft of 16-in HDPE Class DR 17 pipe would be constructed.
- Within the City of Long Beach and the City of Seal Beach:
 - Segment RW 1-14. This segment would begin at the end of segment RW 1-13 on the west side of the College Park Drive bridge and would be attached to the north side of the College Park Drive bridge structure adjacent to existing water utilities (Figure 3h) within the City of Long Beach and the City of Seal Beach. During construction, while the pipe is being attached to the existing bridge, the contractor would employ methods to prevent material or debris from falling into the San Gabriel River.

- Approximately 337 linear ft of 16-in cement mortar-lined and epoxy-coated (CML&EC) welded steel pipe (WSP) would be attached to the bridge.
- Within the City of Seal Beach, a total of 0.15 miles of RW pipeline would be installed:
 - Segment RW 1-15. This segment would begin at the end of segment RW 1-14 on the east side of the College Park Drive bridge and would be constructed within an existing paved access road and within College Park Drive then continue south underneath SR 22 and SR 22 right-of-way to the tie-in on the HGS property (Figure 3h-3i) within the City of Seal Beach.
 - Approximately 806 linear ft of 16-in HDPE Class DR 17 pipe would be constructed. Of the 806 linear ft, 249 linear ft of pipe would be placed within a 36-in micro-tunnel steel casing. The steel casing would be installed within a new tunnel (36-in diameter and 249 ft long) underneath SR 22. The steel casing would be installed at a depth of approximately 22-32 ft below existing ground (due to the variation in SR 22 elevation) and would require a pit to be dug on either side of SR 22. The receiving pit, dug on the north side of SR 22, would be 20 ft by 36 ft and dug at a depth of 22 ft below existing ground. The launch pit/jacking pit, dug on the south side of SR 22, would be 40 ft by 36 ft and dug at a depth of 21 ft below existing ground.

Table 1. Pipeline Segments Corresponding to Design Sheets

Pipeline Segment	Design Sheet	Figure
RW 1-11	C01, C02, C03	Figures 3b – 3d
RW 1-10	C03, C04, C05	Figures 3d – 3f
RW 1-12	C05, C06	Figures 3f – 3g
RW 1-13	C06, C07	Figures 3g – 3h
RW 1-14	C07	Figure 3h
RW 1-15	C07, C08	Figures 3h – 3i
Notes: Pipeline Segments correspond to those within the Preliminary Design Report (Carollo, 2022b) Design Sheets and Figures correspond to the Draft 100% Design Plans (Carollo, 2022a)		

- The majority of the RW pipeline would be installed via the traditional method of open-cut trenching. The average depth would be three feet to the top of the RW pipe.
- A portion of segment RW 1-15 would be installed via trenchless construction/micro-tunneling.

IX. Surrounding Land Uses and Setting:

The majority of the Project is located southwest of the Interstate 405 (I-405) and north of SR 22 in the southeastern portion of Long Beach in Los Angeles County and the western portion of Seal Beach in Orange County (Figure 1), with a short length of the Project on the eastern end extending south of SR 22. The Project site is located within and adjacent to the following roadways: Atherton Street, Studebaker Frontage Road, Studebaker Road, Studebaker Access Road / SR 22 off-ramp, College Park Drive, and SR 22 (Figure 2).

In the City of Long Beach, from the Studebaker Frontage Road to Anaheim Road, single family residences are located adjacent to the Project. South of Anaheim Road to E 9th Street commercial properties and parking lots are located adjacent to the Project area on the east and west side of Studebaker Road. South of E 9th Street, single family residences are located adjacent to the Project on the eastern side of Studebaker Road, Studebaker Access Road / SR 22 off-ramp, and on the northern side of College Park Drive. The College Park Drive bridge crosses the San Gabriel River and into Seal Beach.

In Seal Beach, Edison Park is located north of College Park Drive east of College Park Drive bridge and west of the proposed tunnelling location under SR 11. South of SR 22 ROW, the Project would be located within the HGS-owned industrial property.

X. Other Public Agencies whose Approval is Required

Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement) may include, but are not limited to:

- City of Long Beach – Encroachment and Traffic Control Permit
- Caltrans – Encroachment/Right to Enter Permit and Traffic Control Permit
- California State Water Resources Control Board – Dewatering Permit and Construction General Permit (CGP)/ Linear Underground Project (LUP) Type 2 (Issuance of a Waste Discharger Identification (WDID) Number)
- Los Angeles County Flood Control District (LACFCD) - Encroachment/Right to Enter Permit
- South Coast Air Quality Management District – Adherence to construction equipment rules for air emission regulations

XI. Have California Native American tribes traditionally and culturally affiliated with the Project area requested consultation pursuant to Public Resources Code §21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc?

Contact letter providing the opportunity to request consultation under Assembly Bill (AB) 52 was distributed by email on City of Long Beach letterhead (letter dated April 6, 2023) to Tribal representatives for the following 9 tribes/nations, as included on the Native American Heritage Commission (NAHC) contact list (dated October 20, 2022):

- Gabrieleño Band of Mission Indians – Kizh Nation (Andrew Salas, Chairperson)
- Gabrieleno/Tongva San Gabriel Band of Mission Indians (Anthony Morales, Chairperson)
- Gabrielino/Tongva Nation (Sandonne Goad, Chairperson)
- Gabrielino Tongva Indians of California Tribal Council (Robert Dorame, Chairperson)
- Gabrielino Tongva Indians of California Tribal Council (Christina Conley, Tribal Consultant and Administrator)
- Gabrielino-Tongva Tribe (Charles Alvarez)
- Juaneno Band of Mission Indians Acjachemen Nation – Belardes (Matias Belardes, Chairperson)
- Juaneno Band of Mission Indians Acjachemen Nation – Belardes (Joyce Perry, Tribal Manager)
- Juaneno Band of Mission Indians Acjachemen Nation 84A (Heidi Lucero, Chairperson)

- Santa Rosa Band of Cahuilla Indians (Lovina Redner, Tribal Chair)
- Soboba Band of Luiseno Indians (Isaiah Vivanco, Chairperson)
- Soboba Band of Luiseno Indians (Joseph Ontiveros, Cultural Resource Department)

Opportunity for Consultation initiated and complete. As of August 7, 2023, responses requesting consultation have been received from Tribal representatives of the Gabrielino Tongva Indians of California Tribal Council, the Gabrieleño Band of Mission Indians – Kizh Nation, and the Juaneno Band of Mission Indians Acjachemen Nation – Belardes. No responses have been received to date from the contacted representatives for the Gabrieleno/Tongva San Gabriel Band of Mission Indians, Gabrielino/Tongva Nation, Gabrielino-Tongva Tribe, Juaneno Band of Mission Indians Acjachemen Nation 84A, Santa Rosa Band of Cahuilla Indians, or the Soboba Band of Luiseno Indians. Refer to Section 4.18 of this Initial Study (IS) / Mitigated Negative Declaration (MND) for a summary of consultation and mitigation measures.

XII. Mitigation Monitoring and Reporting Program Summary

Provided in Appendix G.

Figure 1 – Regional Location Map

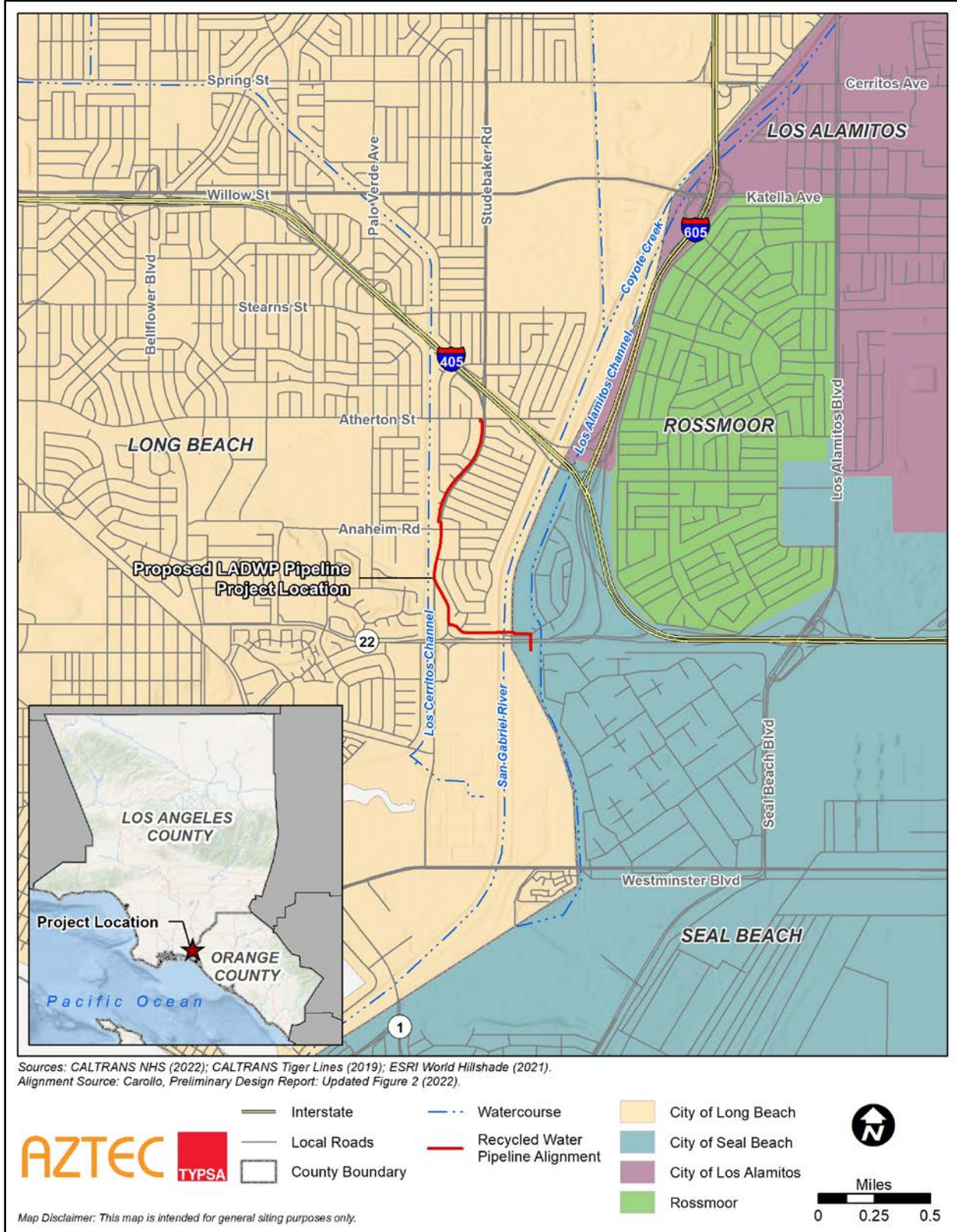


Figure 2 – Project Location Map

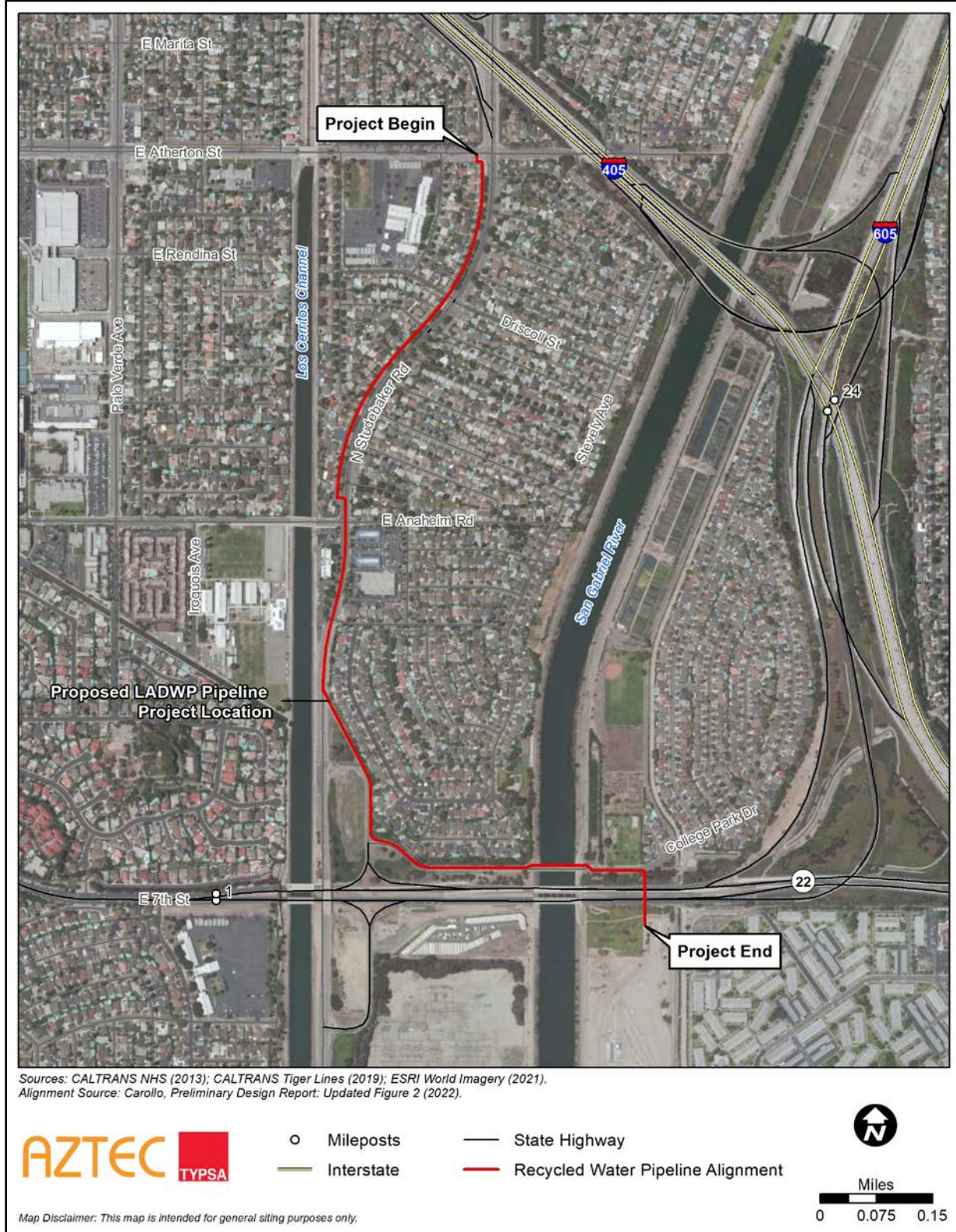
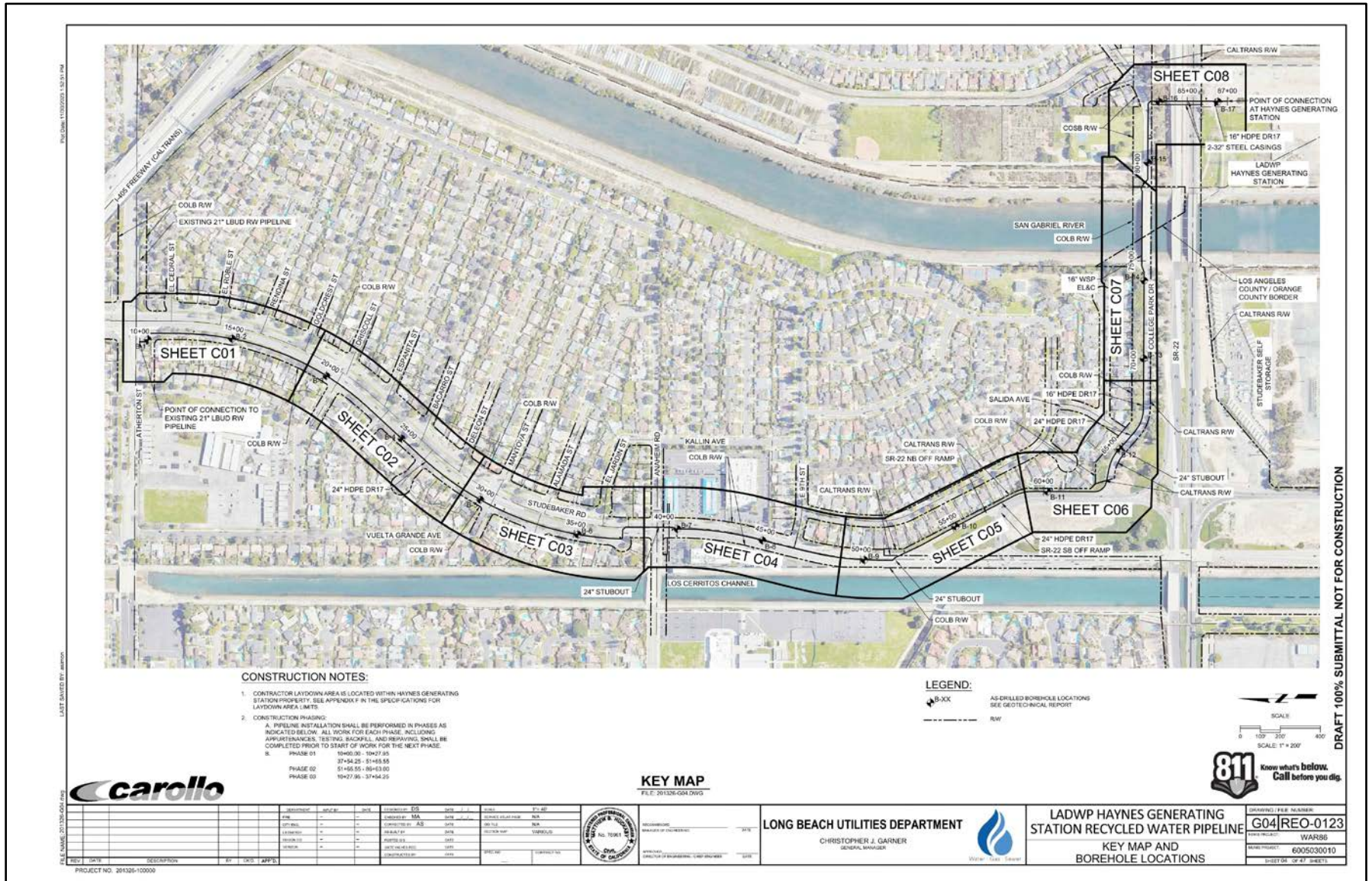
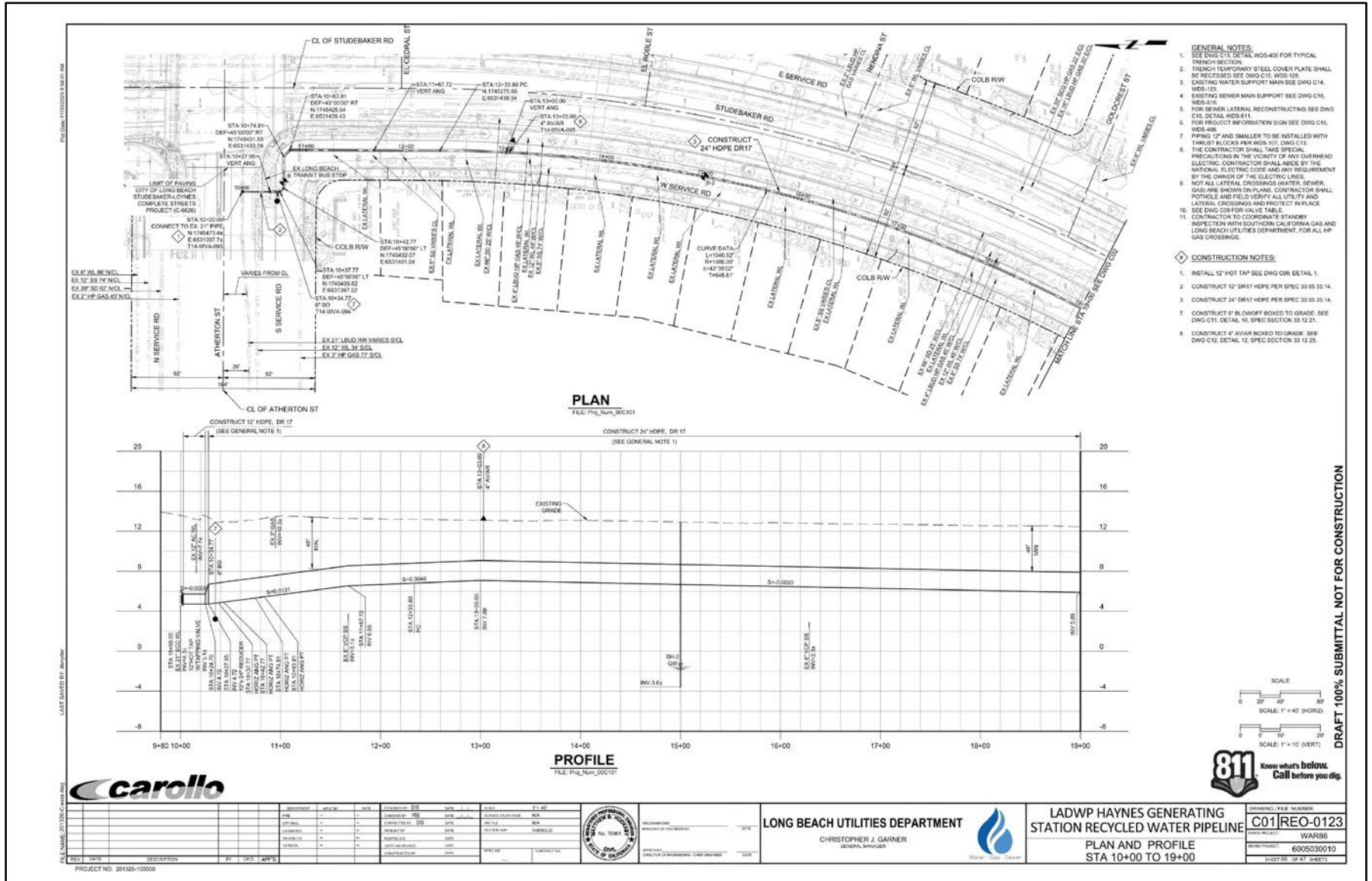


Figure 3a – Proposed Pipeline Alignment – Index Sheet



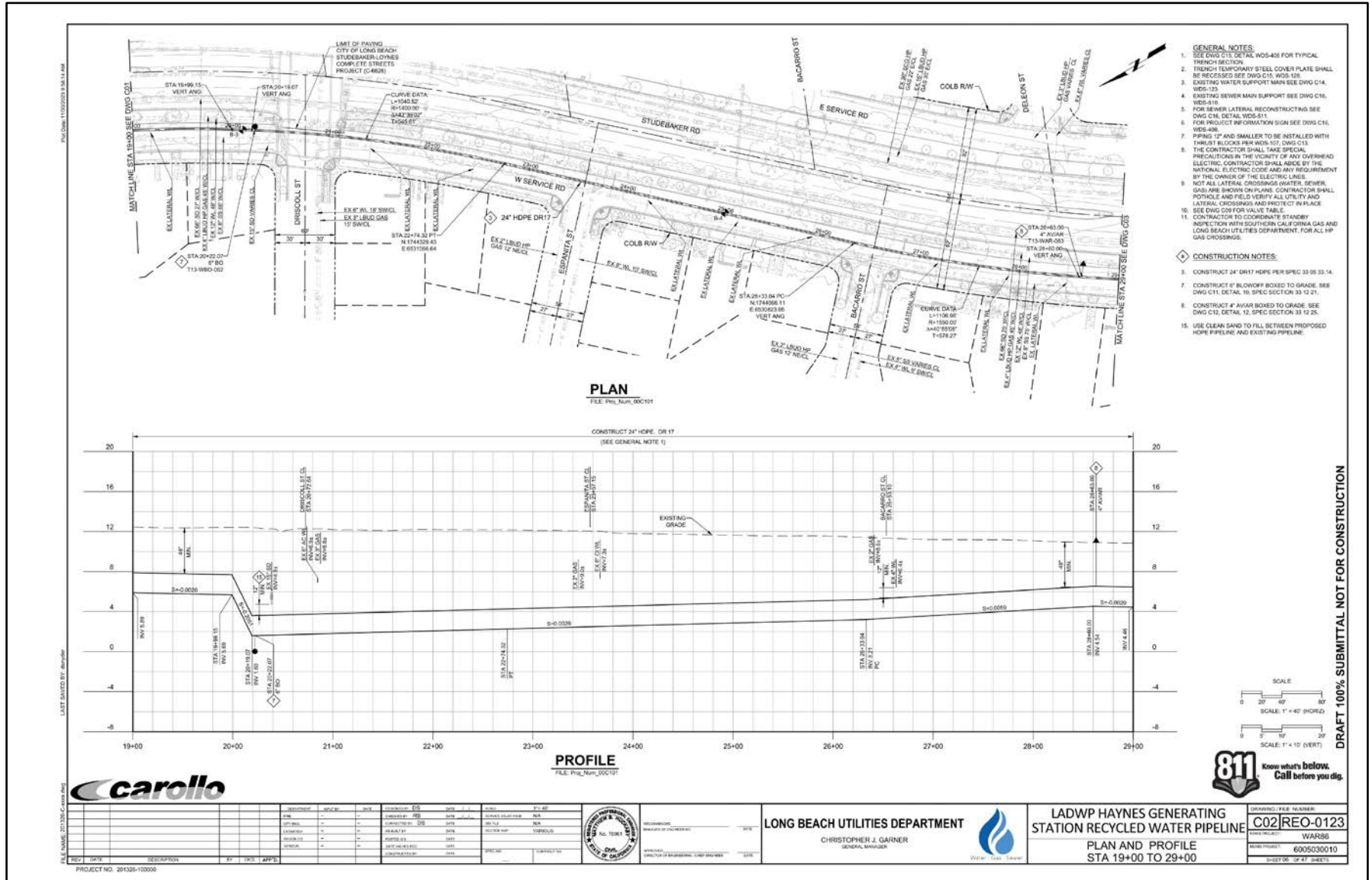
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3b – Proposed Pipeline Alignment – Details



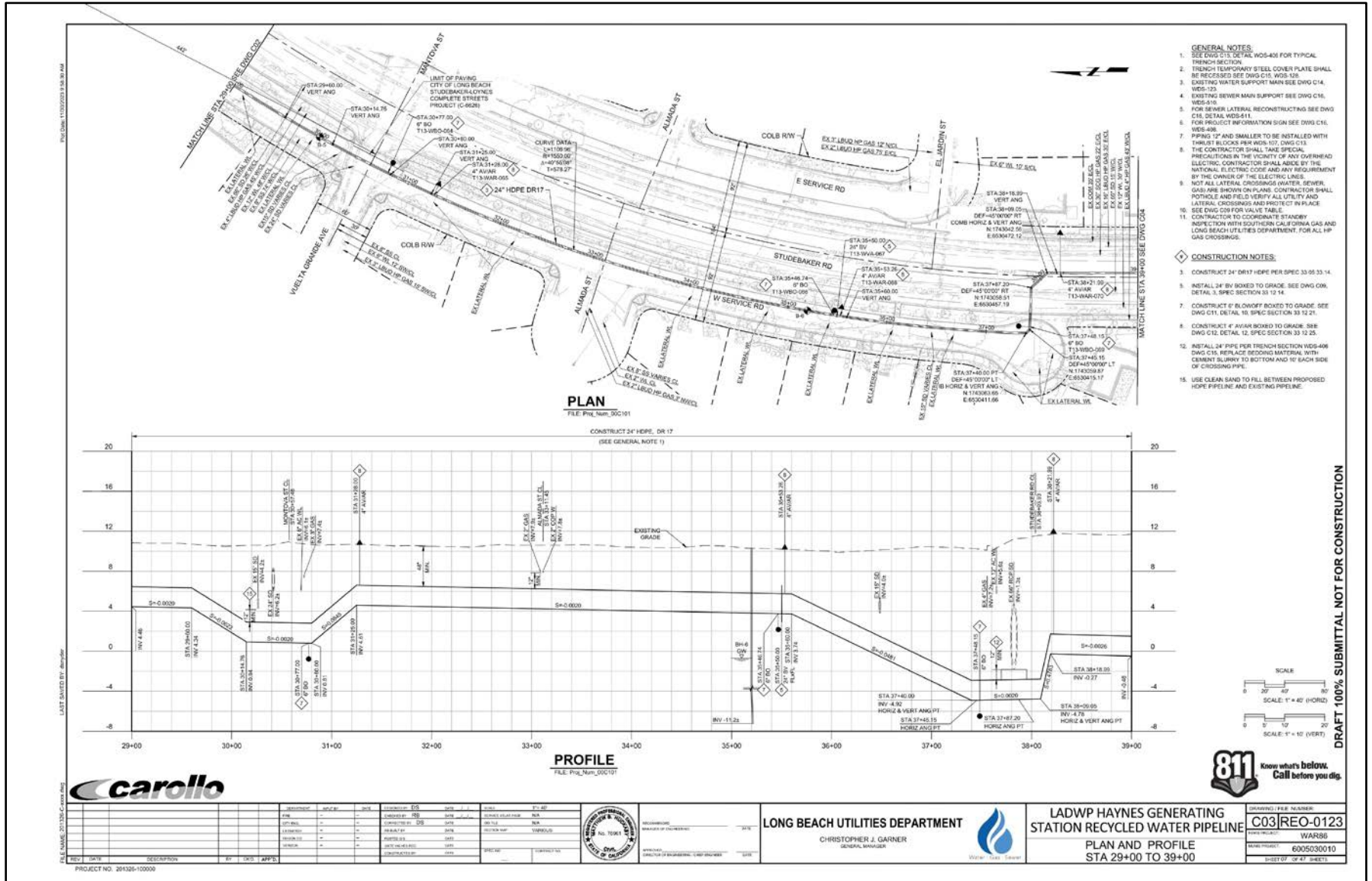
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3c – Proposed Pipeline Alignment – Details



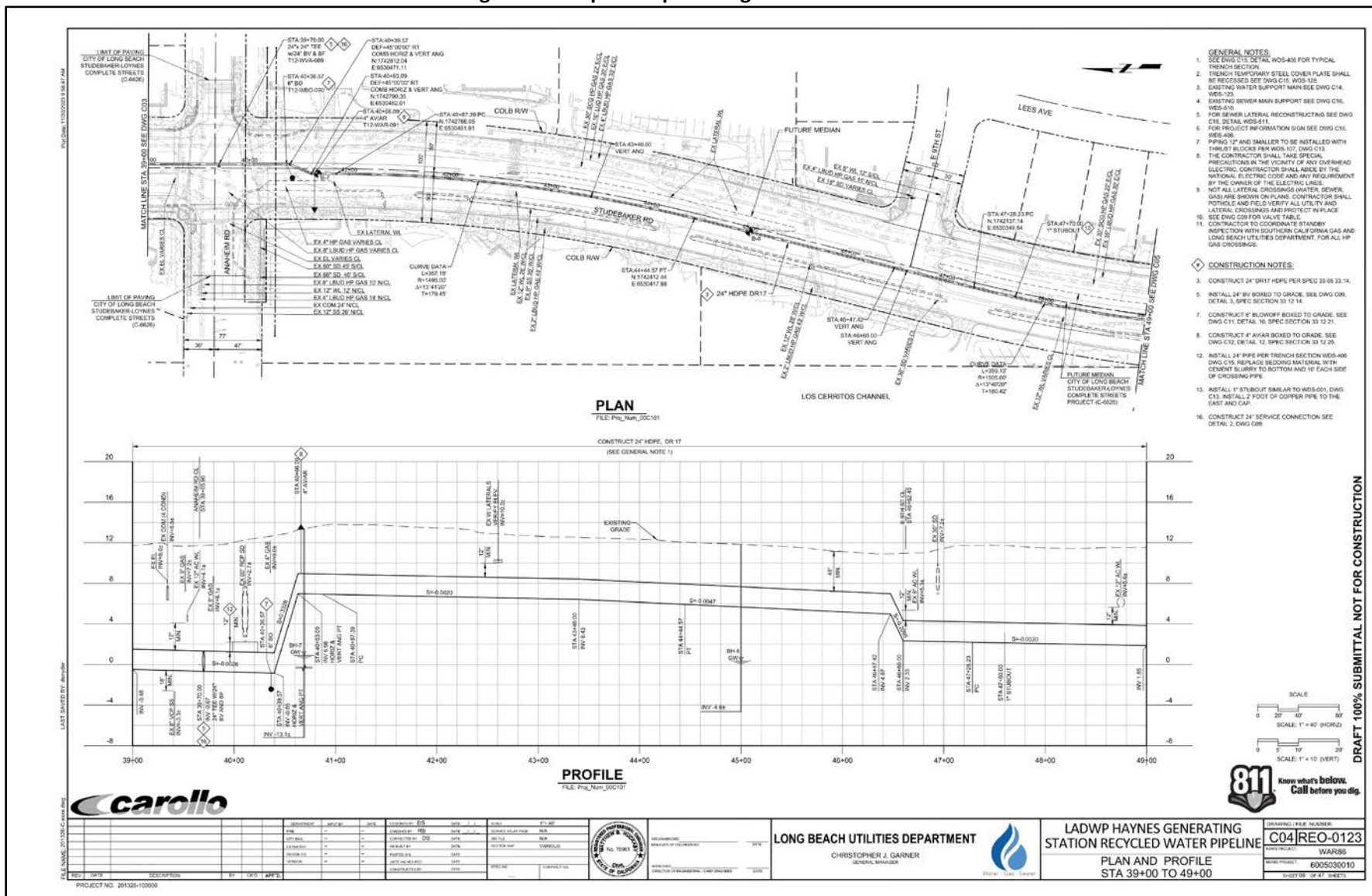
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3d – Proposed Pipeline Alignment – Details



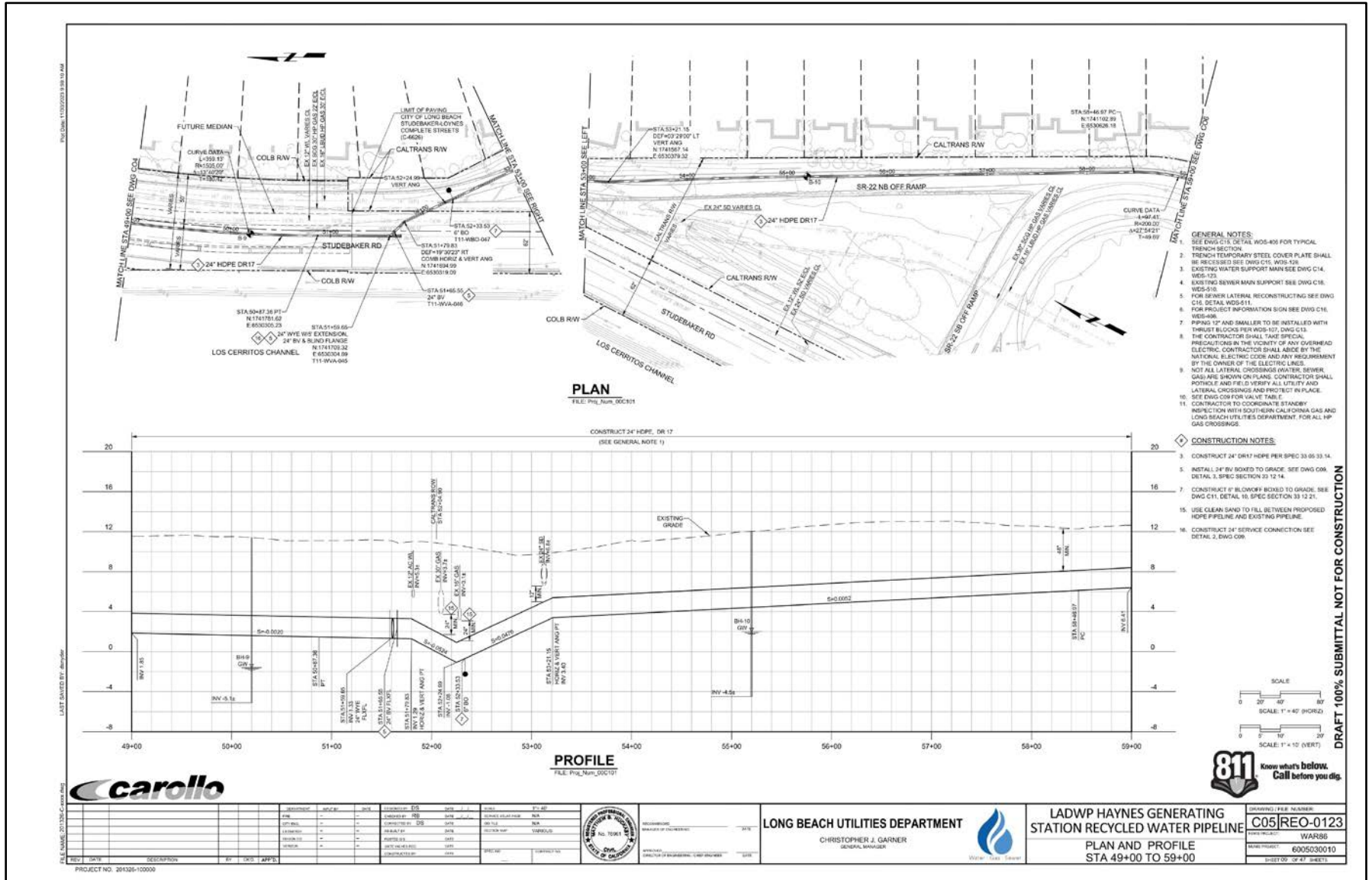
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3e – Proposed Pipeline Alignment – Details



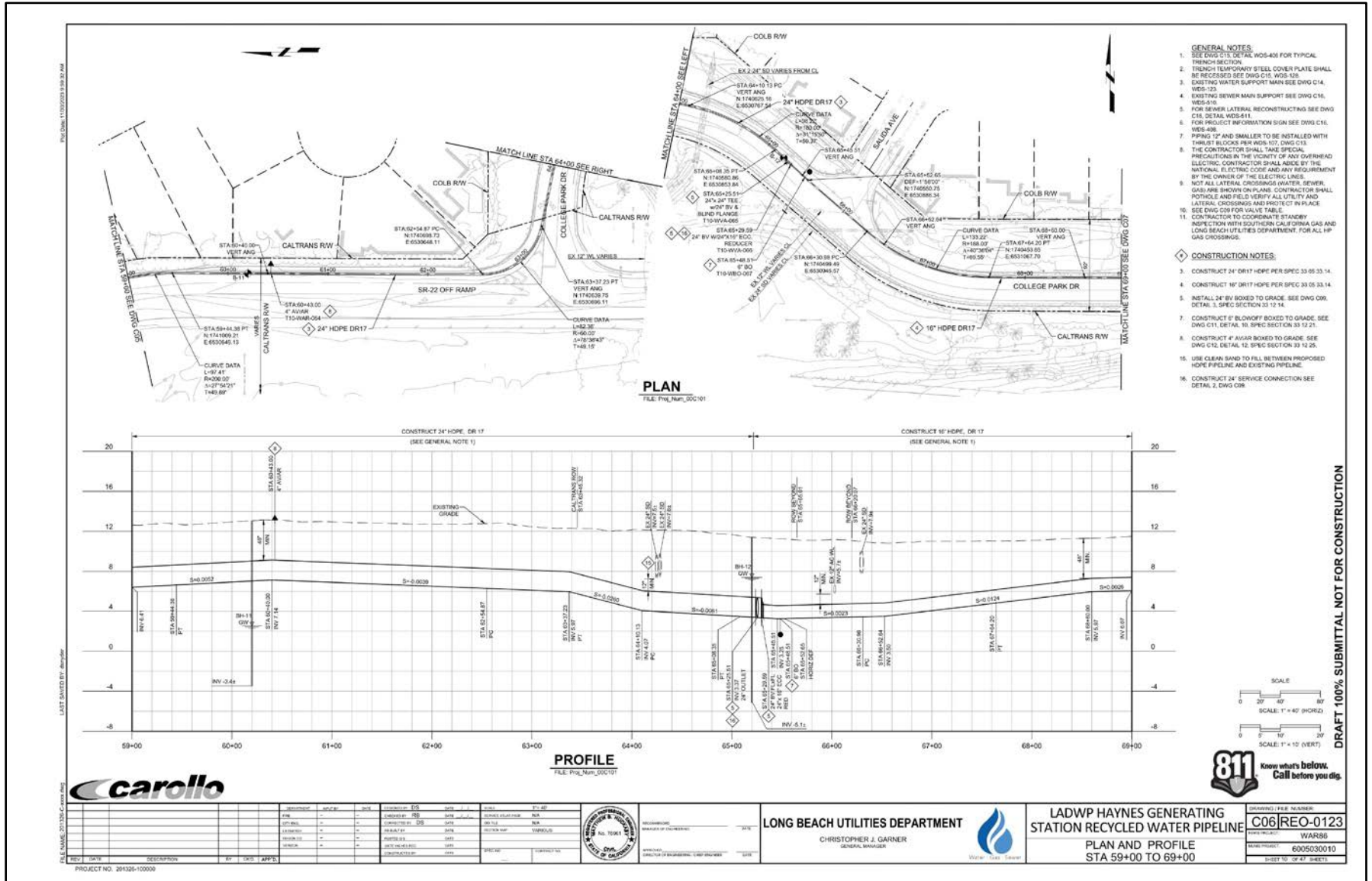
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3f – Proposed Pipeline Alignment – Details



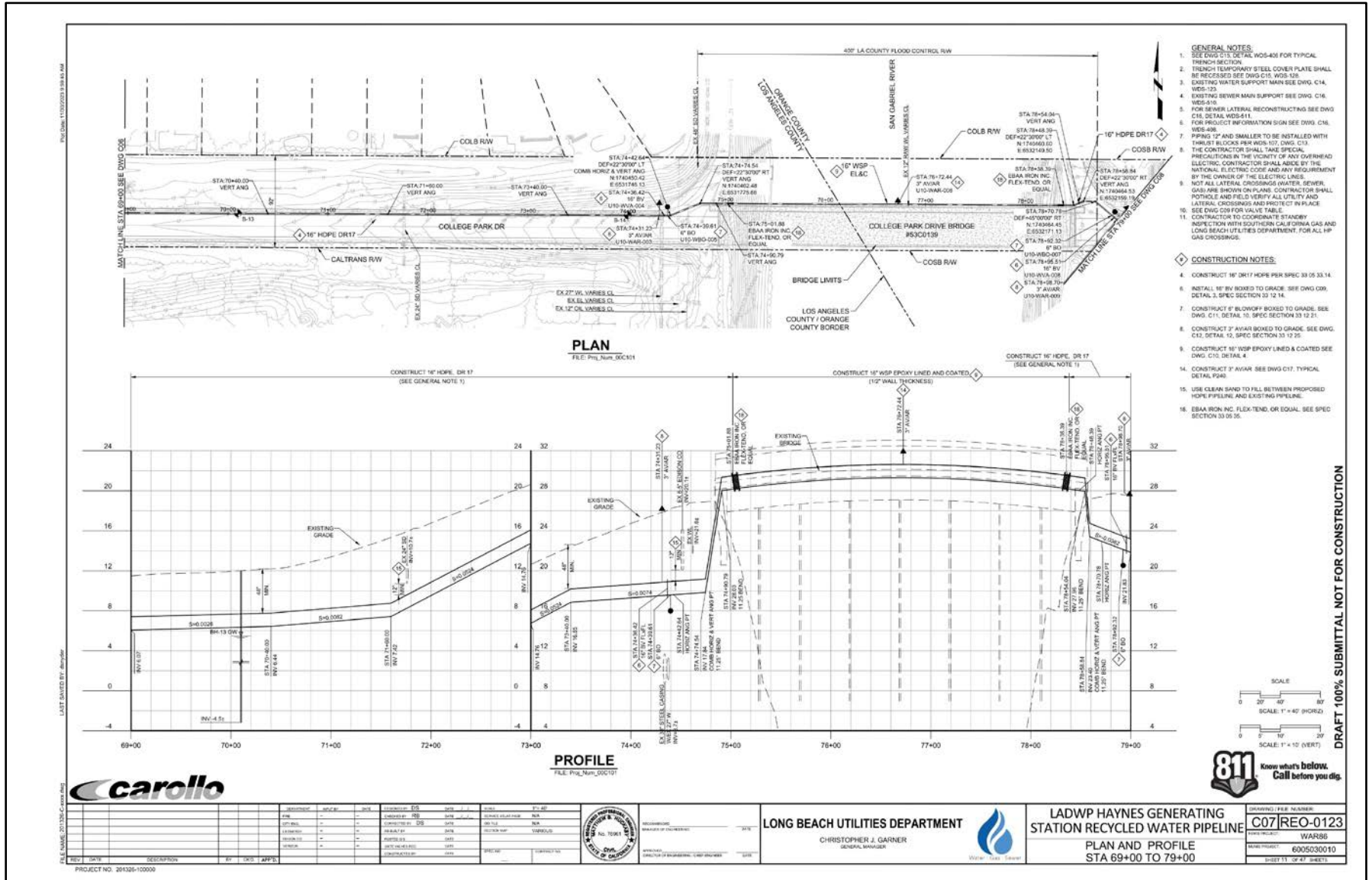
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3g – Proposed Pipeline Alignment – Details



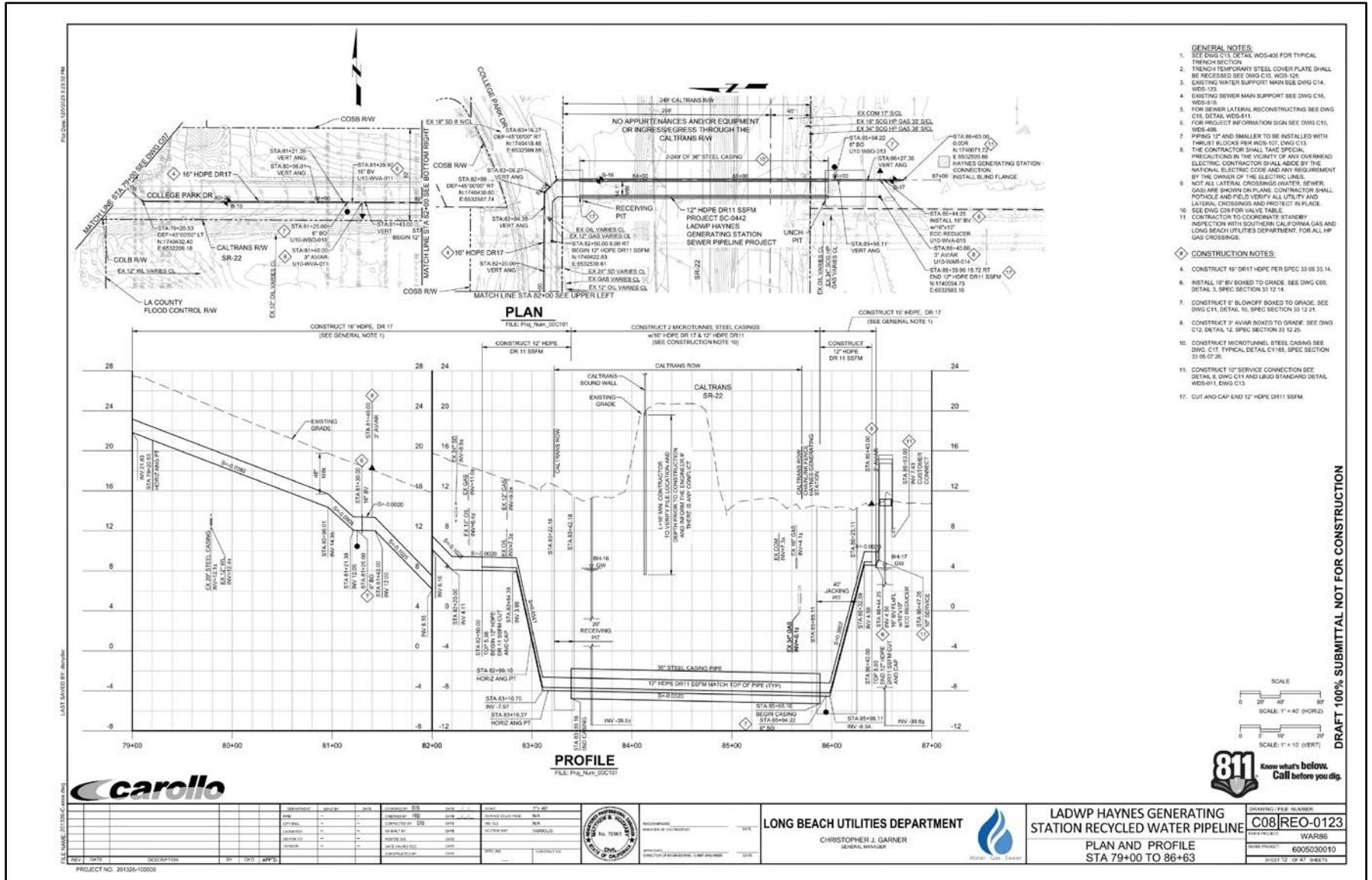
Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3h – Proposed Pipeline Alignment – Details



Source: Draft 100% Design Plans (Carollo, 2022a)

Figure 3i – Proposed Pipeline Alignment – Details



Source: Draft 100% Design Plans (Carollo, 2022a)

2 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” or “Less Than Significant With Mitigation Incorporated,” as indicated by the checklist on the following pages.


	Aesthetics		Mineral Resources
	Agriculture and Forestry Resources	X	Noise
X	Air Quality		Population and Housing
X	Biological Resources	X	Public Services
X	Cultural Resources		Recreation
	Energy	X	Transportation
X	Geology and Soils	X	Tribal Cultural Resources
	Greenhouse Gas Emissions		Utilities and Service Systems
X	Hazards and Hazardous Materials		Wildfire
	Hydrology and Water Quality	X	Mandatory Findings of Significance
	Land Use and Planning		

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	
I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.	X
I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.	
I find that the proposed Project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	
I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.	

Submitted by:
Long Beach Utilities Department



Signature

1/12/2024

Date

3 INTRODUCTION

CEQA Overview

The California Environmental Quality Act (CEQA) requires that all state and local government agencies consider the environmental consequences of programs and projects over which they have discretionary authority before taking action on them. The City of Long Beach (City)/LBUD has determined that the Haynes Generating Station Recycled Water Pipeline Project (Project) constitutes a “project” as defined by CEQA. The CEQA guidelines (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000–15387) Section 15367 states that the lead agency is “the public agency which has the principal responsibility for carrying out or approving a project.” Therefore, the City/LBUD is the lead agency and responsible for compliance with CEQA.

Section 15063 of the CEQA guidelines identifies specific disclosure requirements for inclusion in an IS. Pursuant to those requirements, an IS shall include:

- A description of the project, including the location of the project;
- Identification of the environmental setting;
- Identification of environmental effects by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that there is some evidence to support the entries;
- Discussion of ways to mitigate significant effects identified, if any;
- Examination of whether the project is compatible with existing zoning, plans, and other applicable land use controls; and
- The name(s) of the person(s) who prepared or participated in the preparation of the initial study.

Authority

The LBUD is the CEQA lead agency responsible for the review and approval of the Project. Based on the findings of the IS, the LBUD has made the determination that a MND is the appropriate environmental document to be prepared in compliance with CEQA (California Public Resources Code, Section 21000 et seq.). As stated in CEQA Section 21064, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment.

For the Project to obtain environmental clearance in the form of a MND, any potential significant adverse effects must be mitigated to a less-than significant level. This document alone does not determine whether the Project will be approved. Rather, it is a disclosure document aimed at informing concerned parties and fostering informed discussion and decision-making regarding all aspects of the Project.

Documents Incorporated by Reference

The following document was utilized during preparation of this Initial Study and is incorporated by reference. This document is available for review online at <https://ceqanet.opr.ca.gov/2021110083>.

- Draft Initial Study/Mitigated Negative Declaration, Haynes Generating Station Unit 8, SCH number 2021110083. 2021. Los Angeles Department of Water and Power. 111 North Hope Street, Room 1044, Los Angeles, California 90012.

The Haynes Generating Station Unit 8 Recycled Water Cooling System Retrofit Project IS/MND considers improvements at the HGS that enable LADWP to modify its existing generation units that currently rely on once-through cooling to supply water losses and makeup water and the discharge of industrial wastewater and storm to the San Gabriel River. Under this related project, LADWP will construct a new storage reservoir and pump station at the HGS site, as described in the Haynes Generating Station Unit 8 Recycled Water Cooling System Retrofit Project

IS/MND (SCH #2021110083) with a total capacity of approximately 3 MG that would enable for the discharge of industrial wastewater and stormwater to the sanitary sewer system.

A new pump station will be constructed within a separate, new above ground concrete structure (or an underground vault) located on the HGS site. The new pumps would be electrically driven and constructed within a new enclosed structure or underground utility vault. The new electrical equipment, including a new LADWP transformer, would be placed at the new pump station site. Indirect GHG emissions from the HGS retrofit and potential impacts to biological, water, and cultural resources were addressed in the Haynes Generating Station Unit 8 Recycled Water Cooling System Retrofit Project IS/MND and were found to be less than significant.

Scope of Initial Study Checklist

AZTEC, under the LBUD and the City's guidance, prepared the project's IS checklist per CEQA Guidelines Sections 15063–15065. The CEQA Guidelines include a suggested checklist to indicate whether a project would have an adverse impact on the environment. The checklist is found in Section 4 of this document. Following the checklist, Sections 4.1 through 4.21 include an explanation and discussion of each significance determination made in the checklist. For this IS, the following four possible responses to each individual environmental issue area are included in the checklist:

- Potentially Significant Impact
- Less than Significant Impact with Mitigation Incorporated
- Less than Significant Impact
- No Impact

The checklist and accompanying explanation of checklist responses provide the information and analysis necessary to assess relative environmental impacts of the project. In doing so, the LBUD/City will determine the extent of additional environmental review, if any, for the project.

4 EVALUATION OF ENVIRONMENTAL IMPACTS

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance.

4.1 Aesthetics

The Aesthetics section of this environmental document evaluates the impact the Project would have on aesthetic resources.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS. Except as provided in Public Resources Code §21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with the applicable zoning or other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **No Impact.** Important vistas within the City of Long Beach, as identified in the City of Long Beach General Plan Urban Design Element, include views of the Pacific Ocean, downtown Long Beach, marinas, and the San Gabriel and Santa Ana Mountains to the northeast, and views from high points like Signal Hill (City of Long Beach, 2019). Scenic / view assets identified in the City of Long Beach’s Scenic Routes Element of the General Plan adopted in 1975, include views of the Pacific Ocean, port facilities, and oil islands from Ocean Blvd, Bixby Park, and Bluff Park (City of Long Beach, 1975b).

The City of Seal Beach defines “view parks” as those “smaller passive parks designed to take advantage of a significant view” within the Open Space section of their General Plan (City of Seal Beach, 2003d).

No important or scenic vistas as identified in the City of Long Beach’s Urban Design Element or Scenic Routes Element, or “view parks” as identified in the City of Seal Beach’s Open Space section, are found within the Project area. Therefore, construction and operation of the Project would result in no impact under this criterion.

- b) **Less Than Significant Impact.** The Project is not located in or near an officially designated state scenic highway. The nearest eligible state scenic highway is SR 1 approximately 1.20 miles west of the Project area (Caltrans, 2019). There is limited visibility of the Project area from SR 1 and construction of the Project would result in a temporary degradation of visual resources by introducing construction equipment and construction materials within the viewshed of SR 1. The Project would result in a temporary impact to scenic resources for the duration of construction. Therefore, construction of the Project would result in less than significant impact under this criterion. During operation and maintenance, the Project would operate underground and would not alter or remove aboveground visual resources within the viewshed of SR 1. Maintenance of the pipeline would require maintenance equipment (e.g., work trucks) to be located within the Project area. However, maintenance would be short-term and temporary in nature, and would not

remove aboveground visual resources within the viewshed of SR 1. Therefore, operation of the Project would result in less than significant impact under this criterion.

- c) **No Impact.** The Project is located within a developed, urbanized area that contains residential, commercial, industrial, and open space (parks) zoning. Construction and operation of the Project would adhere to the City of Long Beach zoning ordinances related to residential and commercial zones (Long Beach Municipal Code [LBMC], Sections 21.31 & 21.32; Los Angeles County Code [LACC], Sections 22.18 & 22.20); and adhere to the City of Seal Beach zoning ordinances related to industrial zones (Seal Beach Municipal Code [SBMC], Section 11.2.15). During construction and operation, the Project would meet applicable City of Long Beach and City of Seal Beach zoning codes and ordinances related to scenic quality. Therefore, construction and operation of the Project would result in no impact under this criterion.
- d) **Less Than Significant Impact.** Within Long Beach, existing street lighting (e.g., streetlamps) within the Project area is present along Studebaker Road, the Studebaker Access Road / SR 22 off-ramp, and College Park Drive, and at the following intersections: Atherton Street / Studebaker Road, Driscoll Street / Studebaker Road, and Anaheim Road / Studebaker Road. Within Seal Beach, existing street lighting (e.g. street lamps) within the Project area is present along College Park Drive, and overhead lighting (e.g. flood lights) is present on the HGS property. No permanent lighting would be installed for the Project. During construction, the Project may add low to moderate levels of exterior lighting for security, signage, or temporary work lighting for construction areas if construction activities are performed at night or under deficient daylight conditions. The Project would not significantly increase light levels over the existing ambient conditions during construction; however, it would introduce temporary downward facing light for the duration of construction. Therefore, construction of the Project would result in less than significant impact under this criterion. During operation, the Project would operate underground and would not create aboveground sources of light. Maintenance of the pipeline would require maintenance vehicles to operate during the day but would not introduce a significant source of light above ambient levels. Therefore, operation of the Project would result in less than significant impact under this criterion.

Glint may occur off the windshield of construction vehicles and safety vests worn by on-site personnel. The Project would construct a RW pipeline underground and does not include installation of permanent lighting. Construction of the Project would not utilize building materials with highly reflective properties. As discussed above, if construction activities are performed at night or under deficient daylight conditions, low to moderate levels of exterior lighting or temporary work lighting may be used during construction. Temporary lighting would be shielded and downward facing. Thus, it would not introduce a significant amount of glare to the Project area. Therefore, construction of the Project would result in less than significant impact under this criterion. During operation, the Project would operate underground and would not require sources of light. Maintenance of the pipeline would require maintenance vehicles to operate during the day but would not introduce a significant source of glare above ambient levels. Therefore, operation of the Project would result in less than significant impact under this criterion.

4.2 Agriculture and Forestry Resources

The Agriculture and Forestry Resources section of this environmental document evaluates the impact the Project would have on agriculture and forest resources.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>II. AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:</p>				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code §12220(g)), timberland (as defined by Public Resources Code §4526), or timberland zoned Timberland Production (as defined by Government Code §51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No Impact.** The Project is located within a developed, urbanized area and no agricultural land is present in the Project area. According to the California Department of Conservation's Important Farmland Finder (2018), the Project area is classified as Urban Built-Up Land, and does not contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland). Therefore, construction and operation of the Project would result in no impact under this criterion.
- b) **No Impact.** The Project area is not under a Williamson Act contract, nor is the Project area zoned for agricultural use (State of California, 1965). Therefore, construction and operation of the Project would result in no impact under this criterion.

- c) **No Impact.** There is no land zoned as forest land, timberland, or as timberland zoned Timberland Production within the City of Long Beach or the City of Seal Beach (City of Long Beach, 2019; City of Seal Beach, 2003b). Thus, the Project area does not contain land zoned as forest land, timberland, or as timberland zoned Timberland Production. Therefore, construction and operation of the Project would result in no impact under this criterion.
- d) **No Impact.** There is no forest land within the City of Long Beach or the City of Seal Beach. The Project area does not contain forest land. Therefore, construction and operation of the Project would result in no impact under this criterion.
- e) **No Impact.** There is no Farmland or forest land within the City of Long Beach or the City of Seal Beach. The Project area does not contain Farmland or forest land. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.3 Air Quality

The information and analysis presented in this air quality section is based on the Air Quality and Greenhouse Gas (GHG) Technical Memorandum prepared by AZTEC Engineering Group, Inc. (Appendix A) for the Project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact with Mitigation Incorporated.** The Project is located within the South Coast Air Basin (SCAB) and under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The SCAQMD has developed an Air Quality Management Plan (AQMP) to improve regional air quality, address federal Clean Air Act requirements and National Ambient Air Quality Standards (NAAQS), and demonstrate attainment with state and federal ambient air quality standards (SCAQMD, 2022). The AQMP receives periodical updates to incorporate strategies and/or control measures to achieve attainment of federal and state standards.

The SCAB's 2016 AQMP focused on attainment strategies for five NAAQS (which included ozone [O₃], and particulate matter less than 2.5 microns [PM_{2.5}]) (SCAQMD, 2016). The SCAB's 2022 AQMP focuses on regulations and control measures to attain the 2015 8-hour O₃ standard (SCAQMD, 2022). For the Project to be compliant with the SCAQMD AQMP, the pollutants emitted by the Project should not exceed the SCAQMD daily threshold or cause a significant impact on air quality. The results of emission modeling for

each construction phase of the Project are shown in Table 2. Modeling results are shown in greater detail within Appendix A.

According to Table 2, the Project’s construction emissions would not exceed the SCAQMD’s significance thresholds with implementation of Mitigation Measure (MM) AQ-1 and MM AQ-2. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

Table 2. Total Daily Exhaust Emissions Thresholds During Construction (pounds/day)

Phase	CO	ROGs	NO _x	PM ₁₀	PM _{2.5}
Site Preparation	5.5	0.6	6.2	0.3	0.2
Pavement Removal	7.8	0.9	6.7	0.7	0.4
RW Pipeline Installation	3.5	0.2	2.0	0.1	0.1
Paving	5.0	0.4	3.0	0.3	0.2
Peak Day (pounds/day)	21.8	2.1	17.9	1.4	0.9
SCAQMD Thresholds	550	75	100	150	55
Exceedance of SCAQMD Thresholds?	No	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 microns and smaller; PM _{2.5} =particles of 2.5 microns and smaller; ROG/VOC=reactive organic gas/volatile organic compound; SCAQMD= South Coast Air Quality Management District					
Source: Appendix A; SCAQMD, 2023b.					

During operation, the Project would have minimal long-term operational air quality impacts from mobile source emissions associated with maintenance vehicular trips. Table 3 below shows the results of emission modeling associated with operation of the Project. Modeling results are shown in greater detail within Appendix A. According to Table 3, the Project’s operation emissions would not exceed the SCAQMD’s significance thresholds. Therefore, operation of the Project would result in less than significant impact under this criterion.

Air Quality Mitigation Measures

MM AQ-1: Fugitive Dust Control.

During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions shall be controlled by regular watering or other dust preventive measures using the following procedures, as specified in the SCAQMD Rule 403.

All material excavated or graded shall be sufficiently watered in sufficient quantities to prevent the generation of visible dust plumes. Watering shall occur at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. All material transported on-site or off-site shall be securely covered to prevent excessive amounts of dust. The area disturbed by clearing, grading, earth moving, or excavation operations shall be minimized so as to prevent excessive amounts of dust. The following control techniques shall be indicated in Project specifications:

- Minimize land disturbance

Table 3. Total Daily Exhaust Emissions Thresholds During Operation (pounds/day)

Source	CO	ROGs	NO _x	SO _x	PM ₁₀	PM _{2.5}
Area	4.0	1.2	0.1	0	0	0
Energy	0	0	0	0	0	0
Mobile	0	0	0	0	0	0
Peak Day (pounds/day)	4	1.2	0.1	0	0	0
SCAQMD Thresholds	550	55	55	150	150	55
Exceedance of SCAQMD Thresholds?	No	No	No	No	No	No

Notes:

CO=carbon monoxide; NO_x=oxides of nitrogen; PM₁₀=particles of 10 microns and smaller; PM_{2.5}=particles of 2.5 microns and smaller; ROG/VOC=reactive organic gas/volatile organic compound; SO_x=oxides of sulfur; SCAQMD= South Coast Air Quality Management District

Source: Appendix A; SCAQMD, 2023b.

- Use watering trucks to minimize dust; watering should be sufficient to confine dust plumes to the Project work areas
- Suspend grading and earthmoving when wind gusts exceed 25 miles per hour unless the soil is wet enough to prevent dust plumes
- Cover trucks when hauling dirt
- Stabilize the surface of dirt piles if not removed immediately
- Limit vehicular paths on unpaved surfaces and stabilize any temporary roads
- Sweep paved streets where there is evidence of dirt that has been carried on to the roadway
- Provide an operational water truck on-site at all times and use watering trucks to minimize dust; watering should be sufficient to confine dust plumes to the Project work areas

MM AQ-2: Exhaust Emissions Control.

The following measures shall be implemented as best management practices to minimize construction emissions:

- Minimize unnecessary vehicular and machinery activities
- Ensure that all construction equipment is properly tuned and maintained
- Minimize idling time to 5 minutes, which saves fuel and reduces emissions
- Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary power generators

b) **Less Than Significant Impact with Mitigation Incorporated.** The Project is located within the SCAB and under the jurisdiction of the SCAQMD. The SCAB is currently in attainment for carbon monoxide (CO), the 24-hour federal particulate matter less than 10 microns (PM₁₀), nitrogen dioxide (NO₂), and sulfur dioxide (SO₂) NAAQS. The SCAB is designated nonattainment for the 1-hour and 8-hour federal and state O₃ standards, the 24-hour state PM₁₀ standard, and the federal and state annual PM_{2.5} standards. In addition, the Los Angeles County portion of the SCAB is designated nonattainment area for the federal lead standard for near-source monitors (SCAQMD, 2018). The air monitoring locations in the SCAB, including the near-source monitoring in Los Angeles County have remained below the NAAQS for lead for the period from 2012 through 2015.

The air quality impacts associated with construction of the Project would be temporary in nature and limited to the vicinity of the Project. According to Table 2, the Project's emissions during construction would not exceed the SCAQMD's significance thresholds with implementation of MM AQ-1 and MM AQ-2; thus, construction of the Project would not result in a cumulatively considerable net increase of any criteria air pollutant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would have minimal long-term operational air quality impacts from mobile source emissions associated with maintenance vehicular trips. According to Table 3, the Project's operation emissions would not exceed the SCAQMD's significance thresholds; thus, operation of the Project would not result in a cumulatively considerable net increase of any criteria air pollutant. Therefore, operation of the Project would result in less than significant impact under this criterion.

- c) **Less Than Significant Impact.** The SCAQMD has developed localized significance threshold (LST) methodology and mass rate look-up tables, by source receptor area, that can be used by public agencies to determine if a project may generate significant adverse localized air quality impacts. The LSTs apply to emissions of oxides of nitrogen (NO_x), CO, PM₁₀, and PM_{2.5}, and are based on distance to the nearest sensitive receptor (SCAQMD, 2023a).

According to the SCAQMD's Rule 1470, a sensitive receptor is defined as "any residence including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes, long term care hospitals, hospices, prisons, and dormitories or similar live-in housing" (SCAQMD, 2021). The Project is located within a developed, urbanized area surrounded by single family residences. The Project has the following receptor locations:

Residential Receptors. Residential properties are present along Studebaker Frontage Road, N Studebaker Road, the SR 22 off-ramp, and College Park Drive. The closest residences to the Project are the homes along the SR 22 off-ramp to Studebaker Road, approximately less than 15 feet from the residential privacy walls to the RW pipeline alignment.

Healthcare Facilities. No healthcare facilities are located within 100 feet (30 meters) of the construction footprint.

Convalescent Facilities. No convalescent homes are located within 100 feet (30 meters) of the construction footprint.

Utilizing the CalEEMod (Version 2020.4.0) model, NO_x, CO, PM₁₀, and PM_{2.5} emissions were evaluated for the construction phase and operation phase of the Project based on a 1-acre LST rate within 25 meters of a sensitive receptor. Modeling results are shown in greater detail within Appendix A. The results of the CalEEMod model for construction of the Project are shown in Table 4 below. According to Table 4, the Project construction phase emissions would not exceed the LST thresholds. Therefore, construction of the Project would result in less than significant under this criterion.

The results of emission modeling associated with on-site emissions, including area source and energy emissions and 5% of on-road emissions for operation of the Project are shown in Table 5. During operation, the Project would have minimal long-term operational air quality impacts from mobile source emissions associated with maintenance vehicular trips. According to Table 5, the Project's operation emissions would not exceed the SCAQMD LST thresholds. Therefore, operation of the Project would result in less than significant impact under this criterion.

Table 4. Summary of On-Site Construction Emissions, Localized Significance (pounds/day)

Project Phase	Emission Rates (pounds/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
Site Preparation	5.3	6.1	0.2	0.2
Pavement Removal	7.3	6.7	0.3	0.3
RW Pipeline Installation	3.3	2.0	0.1	0.1
Paving	4.7	3.0	0.2	0.2
Peak Day (pounds/day)	20.6	17.8	0.8	0.8
SCAQMD Thresholds	585	57	4	3
Exceeds Daily SCAQMD Threshold?	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 microns and smaller; PM _{2.5} =particles of 2.5 microns and smaller; SCAQMD= South Coast Air Quality Management District LST Thresholds based on South Coastal Los Angeles County Area, 1-acre LST rate within 25 meters of a sensitive receptor (SCAQMD, 2009).				

Table 5. Summary of On-Site Operation Emissions, Localized Significance (pounds/day)

Project Phase	Emission Rates (pounds/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
Area	4	0	0	0
Energy	0	0	0	0
Mobile	0	0	0	0
Total (pounds/day)	4	0	0	0
SCAQMD Thresholds	585	57	1	1
Exceeds Daily SCAQMD Threshold?	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 microns and smaller; PM _{2.5} =particles of 2.5 microns and smaller; SCAQMD= South Coast Air Quality Management District LST Thresholds based on South Coastal Los Angeles County Area, 1-acre LST rate within 25 meters of a sensitive receptor (SCAQMD, 2009).				

- d) **Less Than Significant Impact with Mitigation Incorporated.** During construction, construction equipment and associated vehicles would emit minor amounts of odors (e.g., diesel exhaust). Odor emissions would be short-term and temporary in nature, limited in extent at any given time, and distributed throughout the Project study area for the duration of construction; thus, odors would not affect a substantial number of individuals. Furthermore, implementation of MM AQ-1 and MM AQ-2 would ensure compliance with SCAQMD Rule 403 (Fugitive Dust) and Rule 402 (Nuisance) thereby keeping odor emissions to a less than

significant amount Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would have minimal long-term operational odor emissions associated with maintenance vehicular trips (e.g., work trucks). Maintenance trips would occur infrequently and would be limited in extent at any given time; thus, maintenance trips would not cause a significant emission of odors associated with diesel exhaust. The Project would operate underground and would not emit odors during normal operations. Therefore, operation of the Project would result in less than significant impact under this criterion.

4.4 Biological Resources

The Biological Resources section analyzes the potential impact of the Project on wildlife and plant resources within the Project area. The Project is primarily located within and/or beneath existing roadway, and within adjacent developed/landscaped areas (e.g., medians), next to existing commercial, industrial, recreational, and residential uses.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **Less than Significant Impact with Mitigation Incorporated.** A search of the Information for Planning and Consultation (IPaC) system (U.S. Fish and Wildlife Service [USFWS], 2023) was conducted for the Project area on December 4, 2023. The search was generated to identify a list of species and critical habitat under

the USFWS jurisdiction that are known or have potential to be located within or near the Project area. A copy of the IPaC search is provided in Appendix B and the results are summarized in Table 6. No field visit or biological survey was conducted for the project area.

A schedule of the typical breeding seasons for migratory birds listed in Table 6 is provided in Table 7.

Table 6. Summary of IPaC Search Results – Species and Critical Habitat

Resource	Scientific Name	Status	Additional Information
USFWS SPECIES			
Special Status Mammals			
Pacific Pocket Mouse	<i>Perognathus longimembris pacificus</i>	Federal – Endangered	No critical habitat has been designated for this species. Due to the heavily urbanized environment surrounding the Project, no coastal sage scrub vegetation is present. Therefore, no suitable habitat is located within the Project area.
Special Status Birds			
California Least Tern	<i>Sterna antillarum browni</i>	Federal – Endangered	No critical habitat has been designated for this species. Due to the heavily urbanized environment surrounding the Project, no sandy ocean beaches or mud and sand flats are present. Therefore, no suitable habitat is located within the Project area.
Coastal California Gnatcatcher	<i>Poliioptila californica californica</i>	Federal – Threatened	Final critical habitat has been designated for this species. However, the Project area is outside of the critical habitat. Due to the heavily urbanized environment surrounding the Project, no coastal sage scrub vegetation is present. Therefore, no suitable habitat is located within the Project area.
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	Federal – Endangered	Final critical habitat has been designated for this species. However, the Project area is outside of the critical habitat. Due to the heavily urbanized environment surrounding the Project, no dense riparian habitat

Resource	Scientific Name	Status	Additional Information
			is present. Therefore, no suitable habitat is located within the Project area.
Western Snowy Plover	<i>Charadrius nivosus nivosus</i>	Federal – Threatened	Final critical habitat has been designated for this species. However, the Project area is outside of the critical habitat. Due to the heavily urbanized environment surrounding the Project, no barren or sparsely vegetated sand beaches, salt flats, or dunes are present. Therefore, no suitable habitat is located within the Project area.
Special Status Reptiles			
Southwestern Pond Turtle	<i>Actinemys pallida</i>	Federal – Proposed Threatened	No critical habitat has been designated for this species. The only water source in the Project area is the San Gabriel River. However, the San Gabriel River does not provide the necessary aquatic habitat conditions required by the southwestern pond turtle such as basking and shelter sites (i.e., floating and submerged aquatic vegetation, undercut banks, and logs). Therefore, suitable habitat is not located within the Project area.
Special Status Insects			
Monarch butterfly	<i>Danaus plexippus</i>	Federal – Candidate	No critical habitat has been designated for this species. Suitable roost sites such as large eucalyptus (<i>Eucalyptus spp.</i>) trees are present within the Project area. Therefore, suitable habitat is located within the Project area.
Special Status Plants			

Resource	Scientific Name	Status	Additional Information
Salt Marsh Bird's-beak	<i>Cordylanthus maritimus maritimus</i>	Federal – Endangered	No critical habitat has been designated for this species. Due to the heavily urbanized environment surrounding the Project, no tidal marsh habitats are present. Therefore, no suitable habitat is located within the Project area.
Ventura Marsh Milk-vetch	<i>Astragalus pycnostachyus lanosissimus</i>	Federal – Endangered	Final critical habitat has been designated for this species. However, the Project area is outside of the critical habitat. Due to the heavily urbanized environment surrounding the Project, no marsh or swamp habitats are present. Therefore, no suitable habitat is located within the Project area.
Migratory Birds			
Allen's Hummingbird	<i>Selasphorus sasin</i>	Federal – BCC Rangewide (CON)	Breeds February 1 to July 15
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Federal – Non-BCC Vulnerable	Breeds January 1 to August 31
Belding's Savannah Sparrow	<i>Passerculus sandwichensis beldingi</i>	Federal – BCC – BCR	Breeds April 1 to August 15
Black Oystercatcher	<i>Haematopus bachmani</i>	Federal – BCC Rangewide (CON)	Breeds April 15 to October 31
Black Skimmer	<i>Rynchops niger</i>	Federal – BCC Rangewide (CON)	Breeds May 20 to September 15
Black Turnstone	<i>Arenaria melanocephala</i>	Federal – BCC Rangewide (CON)	Breeds elsewhere
Bullock's Oriole	<i>Icterus bullockii</i>	Federal – BCC Rangewide (CON)	Breeds March 21 to July 25
California Gull	<i>Larus californicus</i>	Federal – BCC Rangewide (CON)	Breeds March 1 to July 31
California Thrasher	<i>Toxostoma redivivum</i>	Federal – BCC Rangewide (CON)	Breeds January 1 to July 31
Clark's Grebe	<i>Aechmophorus clarkii</i>	Federal – BCC Rangewide (CON)	Breeds June 1 to August 31
Common Yellowthroat	<i>Geothlypis trichas sinuosa</i>	Federal – BCC – BCR	Breeds May 20 to July 31
Lawrence's Goldfinch	<i>Carduelis lawrencei</i>	Federal – BCC Rangewide (CON)	Breeds March 20 to September 20

Resource	Scientific Name	Status	Additional Information
Marbled Godwit	<i>Limosa fedoa</i>	Federal – BCC Rangewide (CON)	Breeds elsewhere
Nuttall’s Woodpecker	<i>Picoides nuttalli</i>	Federal – BCC – BCR	Breeds April 1 to July 20
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Federal – BCC Rangewide (CON)	Breeds May 20 to August 31
Short-billed Dowitcher	<i>Limnodromus griseus</i>	Federal – BCC Rangewide (CON)	Breeds elsewhere
Western Grebe	<i>Aechmophorus occidentalis</i>	Federal – BCC Rangewide (CON)	Breeds June 1 to August 31
Willet	<i>Tringa semipalmata</i>	Federal – BCC Rangewide (CON)	Breeds elsewhere
USFWS CRITICAL HABITAT			
None listed	N/A	N/A	N/A

BCC = Bird of Conservation Concern

BCC Rangewide (CON) = BCC through its range in the continental USA and Alaska

BCC – BCR = BCC only in particular Bird Conservation Regions (BCR) in the continental US

Non-BCC – Vulnerable = Birds that are not BCC species, but appear on the list because of the Bald and Golden Eagle Protection Act or potential susceptibilities in offshore areas from certain types of development or activities (e.g., offshore energy development or longline fishing)

AZTEC Biologist provided assessment of species within “Additional Information” column of Table 6.

Source: USFWS, 2023.

The USFWS IPaC was reviewed to determine if federal Endangered Species Act (ESA)-listed plant and wildlife species have potential to occur in the Project area. In total, nine ESA-listed species were identified including one Candidate for listing under the ESA, one species proposed as Threatened, two species that are listed as Threatened, and five species that are listed as Endangered. Additionally, of the nine ESA-listed species identified in the IPaC search, one species (monarch butterfly) has potential suitable habitat within the Project area. No critical habitat was identified in the IPaC in the search area.

Along the California coast, overwintering monarch butterflies roost in large trees including, but not limited to, blue gum eucalyptus (*Eucalyptus globulus*), Monterey pine (*Pinus radiata*), and Monterey cypress (*Hesperocyparis macrocarpa*) (USFWS, 2020). In addition, adult monarchs use a wide variety of flowering plants as nectar sources throughout migration and breeding. Suitable roosting habitat and nectar sources are located within the Project area due to the presence of flowering landscaped vegetation and large, landscaped eucalyptus trees between SR 22 and College Park Drive at the southern limits of the Project alignment. Minor vegetation removal, including removal of one eucalyptus tree, is anticipated at the southern limits of the Project alignment within the City of Seal Beach. Due to ample amounts of suitable roosting trees and nectar sources in the surrounding vicinity, construction of the Project would have a less than significant impact on the monarch butterfly.

In total, 14 migratory birds identified in the IPaC search have potential to nest in the Project area between January 1 and October 31 (Table 7). During construction, the Project would install a recycled water pipeline within and adjacent to existing paved surfaces. Minor ground disturbance to unpaved surfaces are anticipated and vegetation removal would be minor. If nesting migratory birds are present within the footprint of the Project during vegetation removal activities, they may be impacted. Therefore, the Project would implement mitigation to avoid impacts to nesting migratory birds. Implementation of MM BIO-1 would reduce potential impacts to nesting migratory birds to less than significant.

A search of the California Natural Diversity Database (CNDDDB) system was conducted for the U.S. Geological Survey (USGS) Los Alamitos 7.5-minute quadrangle (1:24,000), in which the Project area is located, on December 6, 2023. The search was generated to identify species under the California Department of Fish and Wildlife (CDFW) jurisdiction that are known or have potential to be located within or near the Project area (Appendix C). The results of the search are summarized in Table 8.

The CNDDDB species list was reviewed to determine if state special status plant and wildlife species have potential to occur within the Project area. In total, 39 special status species were identified including 5 reptiles and amphibians, 8 birds, 7 insects, 5 mammals, and 14 plants. Of the 39 species listed, 3 species have potentially suitable habitat within the Project area. Special status species with potential suitable habitat in the Project area include burrowing owl (CDFW status: Special Species of Concern), crotch bumble bee (State Status: Candidate Endangered), and monarch butterfly (Federal Status: Candidate) (discussed above).

Burrowing owls often inhabit landscapes highly altered by human activity such as agricultural areas, along roadsides and water conveyance structures, and within urban parks (Shuford and Gardali, 2008). No burrowing owl surveys were conducted for the Project; however, a biologist reviewed aerial and street view imagery of the Project area for the presence of suitable habitat. The southern limits of the Project area does contain suitable habitat for the burrowing owl in the form of a landscaped area between College Park Drive and SR 22 and an open, bare ground lot south of SR 22 (Seal Beach). Minor ground disturbance to unpaved surfaces would result from installing the RW pipeline from where the Project alignment extends south of College Park Drive (Seal Beach). If burrowing owls are present within the Project footprint during active construction, they may be impacted by ground disturbing activities. Therefore, the Project would implement mitigation measures in order to avoid impacts to burrowing owls. Implementation of MM BIO-2 and MM BIO-3 would reduce potential impacts to the burrowing owl to less than significant. Implementation of MM BIO-2 requires that a qualified biologist complete burrowing owl surveys ahead of ground disturbing activities, while MM BIO-3 requires that if any burrowing owls occupying the construction limits cannot be avoided, a qualified individual holding a permit with the USFWS shall relocate the owl(s). Implementation of these MMs would reduce impacts to burrowing owls by identifying if owls are occupying the construction limits and if so, construction activities can avoid the owl(s) entirely or the owl(s) can be relocated out of harms way.

As with most bumble bee species, the crotch bumble bee depends on a variety of flowering plants for nectar and pollen, and they nest and overwinter underground. The Project area does contain a variety of flowering landscaped plants that provide suitable nectar and pollen sources for the species. Additionally, exposed bare ground surfaces that may provide suitable nesting or overwintering habitat for the crotch bumble bee are present within the southern limits of the Project footprint. However, construction and operation of the Project would result in minimal disturbances to unpaved ground surfaces and landscaped vegetation since this area will be restored to pre-construction conditions. Therefore, construction of the Project would result in a less than significant impact on the crotch bumble bee.

Table 7. Breeding Seasons for Migratory Birds with Potential to Occur in Project Area

Species – Common Name (Breeding Season in Project Area)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Allen’s Hummingbird (February 1 – July 15)		Feb 1					Jul 15					
Bald Eagle (January 1 – August 31)	Jan 1							Aug 31				
Belding’s Savannah Sparrow (April 1 to August 15)				Apr 1				Aug 15				
Black Oystercatcher (April 15 to October 31)				Apr 15						Oct 31		
Black Skimmer (May 20 to September 15)					May 20				Sep 15			
Black Turnstone (Breeds Elsewhere)												
Bullock’s Oriole (March 21 to July 25)				Mar 21			Jul 25					
California Gull (March 1 to July 31)			Mar 1				Jul 31					
California Thrasher (January 1 to July 31)	Jan 1						Jul 31					
Clark’s Grebe (June 1 to August 31)						Jun 1		Aug 31				
Common Yellowthroat (May 20 to July 31)					May 20		Jul 31					
Lawrence’s Goldfinch (March 20 to September 20)			Mar 20						Sep 20			
Marbled Godwit (Breeds Elsewhere)												
Nuttall’s Woodpecker (April 1 to July 20)				Apr 1			Jul 20					
Olive-sided Flycatcher (May 20 to August 31)					May 20			Aug 31				
Short-billed Dowitcher (Breeds Elsewhere)												
Western Grebe						Jun 1						

Species – Common Name (Breeding Season in Project Area)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
(June 1 to August 31)								Aug 31				
Willet (Breeds Elsewhere)												
May Breed in Project Area – Day 1 – 15 each month												
May Breed in Project Area – Day 16 – 31 each month												
Breeds Elsewhere												

Source: USFWS, 2022.

Table 8. Summary of CNDDDB Search Results – Species

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDDB Results [12/06/2023])
Reptiles / Amphibians				
Western Spadefoot	<i>Spea hammondi</i>	Federal – None State – None	CDFW_SSC BLM_S IUCN_NT	Habitat: Cismontane woodland, Coastal scrub, Valley and foothill grassland, Vernal pool, Wetland. No suitable habitat is located within the Project area.
Southern California Legless Lizard	<i>Anniella stebbinsi</i>	Federal – None State – None	CDFW_SSC USFS_S	Habitat: Broadleaved upland forest, Chaparral, Coastal Dunes, Coastal scrub. No suitable habitat is located within the Project area.
Green Turtle	<i>Chelonia mydas</i>	Federal – Threatened State – None	IUCN_EN	Habitat: Marine bay. No suitable habitat is located within the Project area.
Western Pond Turtle	<i>Emys marmorata</i>	Federal – Proposed Threatened State – None	CDFW_SSC BLM_S USFS_S IUCN_VU	Habitat: Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh and swamp, Sacramento/San Joaquin flowing waters, South coast flowing waters, South coast standing waters, Wetland. No suitable habitat is located within the Project area.

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDDB Results [12/06/2023])
Coast Horned Lizard	<i>Phrynosoma blainvillii</i>	Federal – None State – None	CDFW_SSC BLM_S IUCN_LC	Habitat: Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinyon and juniper woodland, Riparian scrub, Riparian woodland, Valley and foothill grassland. No suitable habitat is located within the Project area.
Birds				
Tricolored Blackbird	<i>Agelaius tricolor</i>	Federal – None State – Threatened	CDFW_SSC BLM_S NABCI_RWL USFWS_BCC IUCN_EN	Habitat: Freshwater marsh, Marsh and swamp, Swamp, Wetland. No suitable habitat is located within the Project area.
Burrowing Owl	<i>Athene cunicularia</i>	Federal – None State – None	CDFW_SSC BLM_S USFWS_BCC IUCN_LC	Habitat: Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley and foothill grassland. Burrowing owls often inhabit landscapes highly altered by human activity such as agricultural areas, along roadsides and water conveyance structures, and within urban parks (Shuford and Gardali, 2008). Due to the presence of open, landscaped areas at the southern limits of the Project alignment, suitable habitat is located within the Project area.
Ferruginous Hawk	<i>Buteo regalis</i>	Federal – None State – None	CDFW_WL IUCN_LC	Habitat: Great Basin grassland, Great Basin scrub, Pinyon and juniper woodland, Valley and foothill grassland. No suitable habitat is located within the Project area.
Swainson’s Hawk	<i>Buteo swainsoni</i>	Federal – None State – Threatened	BLM_S IUCN_LC	Habitat: Great Basin grassland, Riparian forest, Riparian woodland, Valley and foothill grassland. No suitable habitat is located within the Project area.

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDB Results [12/06/2023])
Western Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>	Federal – Threatened State – Endangered	BLM_S USFS_S	Habitat: Riparian forest. No suitable habitat is located within the Project area.
Belding’s Savannah Sparrow	<i>Passerculus sandwichensis beldingi</i>	Federal – None State – Endangered	USFWS_BCC	Habitat: Marsh and swamp, Wetland. No suitable habitat is located within the Project area.
California Least Tern	<i>Sternula antillarum browni</i>	Federal – Endangered State – Endangered	CDFW_FP	Habitat: Alkali playa, Wetland. No suitable habitat is located within the Project area.
Least Bell’s Vireo	<i>Vireo bellii pusillus</i>	Federal – Endangered State – Endangered	None	Habitat: Riparian forest, Riparian scrub, Riparian woodland. No suitable habitat is located within the Project area.
Insects				
Crotch Bumble Bee	<i>Bombus crotchii</i>	Federal – None State – Candidate Endangered	IUCN_EN	Habitat: Open grassland and scrub. Crotch bumble bees are known to visit a wide variety of flowering plants as nectar sources (Xerces Society, 2018). Due to the presence of a variety of landscaped flowering plants along the Project alignment, suitable habitat is located within the Project area.
Sandy Beach Tiger Beetle	<i>Cicindela hirticollis gravida</i>	Federal – None State – None	None	Habitat: Coastal dunes. No suitable habitat is located within the Project area.
Western Beach Tiger Beetle	<i>Cicindela latesignata</i>	Federal – None State – None	None	Habitat: Estuary, Mud shore/flats, Salt marsh, Sand shore. No suitable habitat is located within the Project area.
Senile Tiger Beetle	<i>Cicindela senillis frosti</i>	Federal – None State – None	None	Habitat: Mud shore/flats, Wetland. No suitable habitat is located within the Project area.

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDB Results [12/06/2023])
Western Tidal-flat Tiger Beetles	<i>Habroscelimorpha gabbi</i>	Federal – None State – None	None	Habitat: Estuary, Mud shore/flats. No suitable habitat is located within the Project area.
Monarch Butterfly (California Overwintering Population)	<i>Danaus plexippus plexippus</i>	Federal – Candidate State – None	USFS_S IUCN_EN	Habitat: Closed-cone coniferous forest. Along the California coast, overwintering monarch butterflies roost in large trees including, but not limited to, blue gum eucalyptus (<i>Eucalyptus globulus</i>), Monterey pine (<i>Pinus radiata</i>), and Monterey cypress (<i>Hesperocyparis macrocarpa</i>) (USFWS, 2020). Suitable roosting habitat is located within the Project area due to the presence of large, landscaped Eucalyptus (<i>Eucalyptus spp.</i>) trees between State Route (SR) 22 and Campus Drive at the southern limits of the Project alignment.
Mammals				
Western Mastiff Bat	<i>Eumops perotis californicus</i>	Federal – None State – None	CDFW_SSC BLM_S	Habitat: Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland. No suitable habitat is located within the Project area.
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	Federal – None State – None	IUCN_LC	Habitat: Lower montane coniferous forest, Oldgrowth, Riparian forest. No suitable habitat is located within the Project area.
Western Yellow Bat	<i>Lasiurus xanthinus</i>	Federal – None State – None	CDFW_SSC IUCN_LC	Habitat: Desert wash. No suitable habitat is located within the Project area.
South Coast Marsh Vole	<i>Microtus californicus stephensi</i>	Federal – None State – None	CDFW_SSC	Habitat: Tidal marsh (CNDDDB, 2007). No suitable habitat is located within the Project area.
Southern California Saltmarsh Shrew	<i>Sorex ornatus salicornicus</i>	Federal – None State – None	CDFW_SSC	Habitat: Salt marsh. No suitable habitat is located within the Project area.
Plants				

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDDB Results [12/06/2023])
Southern Tarplant	<i>Centromadia parryi australis</i>	Federal – None State – None	SB_CalBG/RSAB G SB_CRES SB_SBBG	Habitat: Marsh and swamp, Salt marsh, Valley and foothill grassland, Vernal pool. No suitable habitat is located within the Project area.
Coulter’s Goldfields	<i>Lasthenia glabrata coulteri</i>	Federal – None State – None	BLM_S SB_CalBG/RSAB G SB_SBBG	Habitat: Alkali playa, Marsh and swamp, Salt marsh, Vernal pool, Wetland. No suitable habitat is located within the Project area.
San Bernardino Aster	<i>Symphyotrichum defoliatum</i>	Federal – None State – None	SB_CalBG/RSAB G SB_CRES USFS_S	Habitat: Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh and Swamp, Meadow and seep, Valley and foothill grassland. No suitable habitat is located within the Project area.
Parish’s Brittnescale	<i>Atriplex parishii</i>	Federal – None State – None	USFS_S SB_CRES	Habitat: Alkali playa, Chenopod scrub, Meadow and seep, Vernal pool, Wetland. No suitable habitat is located within the Project area.
Estuary Seablite	<i>Suaeda esteroa</i>	Federal – None State – None	None	Habitat: Marsh and swamp, Salt marsh, Wetland. No suitable habitat is located within the Project area.
Lucky Morning-glory	<i>Calystegia felix</i>	Federal – None State – None	None	Habitat: Meadow and seep, Riparian scrub No suitable habitat is located within the Project area.
Horn’s Milk-vetch	<i>Astragalus hornii hornii</i>	Federal – None State – None	BLM_S	Habitat: Alkali playa, Meadow and seep, Wetland. No suitable habitat is located within the Project area.
Brand’s Star Phacelia	<i>Phacelia stellaris</i>	Federal – None State – None	SB_CalBG/RSAB G	Habitat: Coastal dunes, Coastal scrub. No suitable habitat is located within the Project area.
Salt Spring Checkerbloom	<i>Sidalcea neomexicana</i>	Federal – None State – None	USFS_S	Habitat: Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland. No suitable habitat is located within the Project area.

Species - Common Name	Scientific Name	Status - Federal and State	Status - Other	Additional Information (Source Included if not provided in CNDDB Results [12/06/2023])
Mud Nama	<i>Nama stenocarpa</i>	Federal – None State – None	None	Habitat: Marsh and swamp, Wetland. No suitable habitat is located within the Project area.
Salt Marsh Birds-beak	<i>Chloropyron maritimum maritimum</i>	Federal – Endangered State – Endangered	BLM_S SB_CalBG/RSAB G SB_SBBG SB_CRES	Habitat: Coastal dunes, Marsh and swamp, Salt marsh, Wetland. No suitable habitat is located within the Project area.
Coast Woolly-heads	<i>Nemacaulis denudata denudata</i>	Federal – None State – None	SB_CalBG/RSAB G SB_CRES	Habitat: Coastal dunes. No suitable habitat is located within the Project area.
California Orcutt Grass	<i>Orcuttia californica</i>	Federal – Endangered State - Endangered	SB_CalBG/RSAB G SB_CRES	Habitat: Vernal pool, Wetland No suitable habitat is located within the Project area.
Sanford’s Arrowhead	<i>Sagittaria sanfordii</i>	Federal – None State - None	BLM_S	Habitat: Marsh and swamp, Wetland No suitable habitat is located within the Project area.

BLM_S = Sensitive; CDFW_SSC = Species of Special Concern; USFS_S = Sensitive; IUCN_EN = Endangered; IUCN_LC = Least Concern; IUCN_NT = Near Threatened; IUCN_VU = Vulnerable; USFWS_BCC = Birds of Conservation Concern; SB_CalBG/RSABG = California/Rancho Santa Ana Botanic Garden, SB_CRES = San Diego Zoo CRES Native Gene Seed Bank, SB_SBBG = Santa Barbara Botanic Garden; NABCI_RWL = Red Watch List; NABCI_YWL = Yellow Watch List

AZTEC Biologist provided assessment of species within “Additional Information” column of Table 8.

Source: CDFW, 2023.

Biological Resources Mitigation Measures

MM BIO-1: Vegetation Removal. Vegetation removal activities will be scheduled outside of nesting bird (breeding) season for bird species known to occur within the Project area (October through December) (Table 7), if possible. If vegetation removal activities occur between January 1 and September 30, nesting bird surveys will be conducted prior to vegetation removal activities, and no vegetation removal will occur if an active nest is present. Vegetation removal can occur once the nest is confirmed to be no longer active.

MM BIO-2: Burrowing Owl Survey. A qualified biologist will be employed to complete a pre-construction survey for burrowing owls 96 hours prior to ground disturbing activities occurring in all suitable habitat for the burrowing owl. Surveys will be needed along the portion of the Project alignment in the City of Seal Beach, California and south of College Park Drive including the landscaped area within SR 22 ROW and the HGS property. If active burrows (occupied by burrowing owl[s]) are identified, no Project activities will take place within 100 feet of an active burrow (occupied by burrowing owl[s]).

MM BIO-3: Burrowing Owl Relocation. If a burrowing owl or active burrows (occupied by burrowing owl[s]) cannot be avoided, a qualified biologist holding a permit from the U.S. Fish and Wildlife Service will be employed to relocate burrowing owl(s) from the Project area, as appropriate.

- b) **No Impact.** There is no riparian habitat, or other sensitive natural community identified in local, regional, state, or federal plans within the Project footprint. The Project crosses over the San Gabriel River via the College Park Drive bridge. No riparian vegetation is present along the San Gabriel River in the immediate vicinity of the Project footprint. Scattered patches of primarily non-native plant species such as fan palms (*Washingtonia spp.*), Brazilian pepper (*Schinus terebinthifolia*), and ngaio (*Myoporum laetum*) are present along the San Gabriel River upstream and downstream of the Project. During construction and operation, no riparian habitat or other sensitive natural community would be impacted as there is no riparian habitat or other sensitive community within the Project footprint. Therefore, construction and operation of the Project would result in no impact under this criterion.
- c) **Less Than Significant Impact.** The IPaC search included results from the National Wetland Inventory (NWI) and did not identify NWI mapped wetlands within the Project area. The nearest waterbody is the San Gabriel River and the river intersects the Project alignment where the river passes beneath the College Park Drive bridge. During construction and operation, Project activities would be limited to attaching the RW pipeline from the College Park Drive bridge over the San Gabriel River. While the pipe is being attached to the existing bridge, the contractor would employ methods to prevent material or debris from falling into the San Gabriel River; however, incidental debris may enter the watercourse however it is not intended to be significant and no mitigation is required beyond the methods employed by the contractor thus, a less than significant impact to the watercourse would occur during construction. However, operation of the Project would result in no impact under this criterion.
- d) **No Impact.** The majority of the area surrounding the Project is developed and includes residential, commercial, and industrial properties, as well as a dedicated recreational area (Edison Park, Seal Beach). The Project crosses the San Gabriel River via the College Park Drive Bridge, which is identified as an important riparian corridor by the 2010 California Essential Habitat Connectivity Project (Spencer et al., 2010). The San Gabriel River is used as a movement corridor in the vicinity of the Project alignment by a variety of aquatic and avian species. However, the Project would not interfere with the movement of resident or migratory fish or wildlife species, as the Project would attach the RW pipeline to the existing bridge over the San Gabriel River. The Project will implement MM BIO-1, BIO-2, and BIO-3 to minimize impacts to biological resources, and the contractor would employ methods to prevent material or debris from falling into the San Gabriel River during construction. Thus, Project activities would not impact the San Gabriel River. During construction and operation, the Project would occur within and adjacent to existing paved surfaces and landscaped areas surrounded by residential, commercial, industrial, and recreational

land uses. Therefore, construction and operation of the Project would result in no impact under this criterion.

- e) **Less Than Significant Impact.** The cities of Long Beach and Seal Beach, California, are responsible for managing and maintaining the cities' trees in the Project area and, therefore, have certain policies pertaining to planting, trimming, and removing street trees. Both the Cities of Long Beach and Seal Beach have ordinances restricting tree removal unless permitted or approved by their respective Public Works Departments (LBMC Section 14.28; SBMC Section 9.4). During construction, the Project would possibly require minor vegetation removal including landscaped trees along public streets within the cities of Long Beach and Seal Beach. The Project would implement MM BIO-1, scheduling vegetation removal outside of the nesting bird season, to avoid impacts to nesting birds in the Project area. Therefore, upon receipt of a permit and/or approval from the cities, construction and operation of the Project would result in a less than significant impact under this criterion.
- f) **No Impact.** The Project is not located within the coverage area of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or approved local, regional, or state habitat conservation plan. During construction and operation, no conflicts would occur with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or approved local, regional, or state habitat conservation plan. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.5 Cultural Resources

The Cultural Resources section analyzes impacts on archaeological and historical resources in the Project site. The Project site has been previously graded and developed to support the intersection and roadways, and adjacent residential, commercial, and industrial properties that currently exist.

AZTEC conducted background research for the Project. The research effort included a cultural resources records search and archival research, including review of the California Office of Historic Preservation, Built Environment Resource Directory (BERD), the California Register of Historical Resources (CRHR), and the National Register of Historic Places (NRHP). The records search was requested from the South Central Coastal Information Center at California State University, Fullerton, and was conducted for the Project site and a one-mile radius surrounding the Project (hereafter, the review area). The purpose of the records search was to identify previously recorded cultural resources and previously conducted cultural resource studies within the review area.

Results of the background research identified 155 previously recorded cultural resources and 85 previously conducted cultural resource studies within the review area (Appendix D, Figures D-1 and D-2). No cultural resources have been recorded within or directly adjacent to the Project area. The larger Project vicinity has been subjected to survey, testing/excavation, and limited construction monitoring; however, most of the proposed alignment to the north of East Anaheim Road has not been subjected to prior archaeological investigation, apart from a linear windshield survey that was conducted prior to proposed installation of a desalination transmission pipeline (LA-05215, Figure D-1).

Of the 155 previously recorded resources within the review area, 34 are prehistoric in age, 120 are historic in age, and one resource is considered multi-component in that it includes both prehistoric- and historic-era deposits. Human remains have been identified during previous construction monitoring and excavation efforts conducted at two of the prehistoric-era resources within the review area. Prehistoric resources within the review area include 3 discrete areas documented as the Gabrielino village of Puvunga (listed on the NRHP as the Puvunga Indian Village Sites, under all significance Criteria), 30 sites containing marine shell midden and/or deposits of artifacts (lithics, ceramics), and one isolated occurrence of marine shell and flaked stone debitage. Two of the previously identified marine shell middens were determined through testing and excavation to be natural in origin, and as such are not considered eligible for listing in the CRHR or the NRHP. Of the 28 remaining resources that contain artifact and/or

midden deposits, two locations within the review area but outside the project footprint have been recommended as potentially eligible for listing on the CRHR and 26 have not been formally evaluated for listing in the CRHR or NRHP. The isolated occurrences identified within the review area are ineligible for listing in the CRHR or NRHP.

The single multi-component site within the review area contains a subsurface deposit of prehistoric habitation debris overlain by a deposit of historic-era artifacts; human remains associated with the prehistoric component of the site were encountered during prior testing and excavation. This site’s CRHR and NRHP eligibility has not been evaluated.

Historic resources within the review area largely consist of in-use structures, including the Rancho Los Alamitos structural complex (construction date [c.d.] 1806-1968; listed on the NRHP under Criteria A, B, and C), the Alamitos Generating Station Fuel Oil Tank Farm (c.d. 1955-present; recommended as ineligible for listing in the CRHR but unevaluated for NRHP), the Long Beach Veteran’s Medical Center and associated historic-era buildings (c.d. 1942; determined ineligible for listing in the NRHP but unevaluated for the CRHR or local register), 90 single-family residential structures (c.d. 1953-1965; all of which are ineligible for listing in the CRHR or NRHP), 6 multiple-family residential structures that have been determined as contributors to the NRHP-listed Leisure World National Register District (c.d. 1962-1965), a commercial structure constructed in 1961 (ineligible for listing in the CRHR or NRHP), an electrical transmission tower (c.d. 1955; recommended ineligible for CRHR or NRHP listing), and a flood channel (Los Alamitos Channel) constructed in 1958 (recommended ineligible for CRHR or NRHP listing). In addition to in-use historic structures, 13 isolated historic artifacts (considered ineligible) and 5 historic refuse deposits have been documented within the review area. One of the refuse deposits remains unevaluated for the CRHR or NRHP, and the remaining four have been recommended ineligible for the NRHP but have not been evaluated for the CRHR. There are no historic bridges within the project area that have been determined eligible for CRHR or NRHP listing (Caltrans, 2015).

None of the structures located on the parcels adjacent to the Project Area are listed as historical structures by the City of Long Beach or the City of Seal Beach, and none are listed in the BERD, but historical aerial imagery indicates that the surrounding residential neighborhood was developed between 1953 and 1963.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **No Impact.** As noted above, no historical properties (including bridges) or archaeological resources have been recorded within the Project area; however, a review of historic aerial imagery indicates that the surrounding residential neighborhood was developed between 1953 and 1963. Background research identified 90 contemporaneous single-family residential buildings recorded within the review area, however 76 of these were recommended ineligible for the California Register and the NRHP (individually, and as contributing elements to a District). Based on this, it is possible that there are undocumented historic

properties situated along the Project alignment that have not been evaluated for CRHR or NRHP eligibility for listing on the CRHR and/or the NRHP; however, the Project would not impact nor cause a substantial adverse change in the significance of any undocumented historic properties that may be present along the proposed pipeline alignment.

During construction, ground disturbance would be limited to the extent of previous development within the paved roadway and would not impact existing residential structures or properties along the proposed alignment. Therefore, construction of the Project would result in no impact under this criterion. During operation, the pipeline would operate underground and normal operations would not generate ground disturbance nor would operations affect the visual environment in such a way that would detract from a property's historic significance. Therefore, operation of the Project would result in no impact under this criterion.

- b) **Less Than Significant Impact with Mitigation Incorporated.** The vast majority of the Project and the surrounding vicinity is completely developed, and historical aerial imagery indicates that areas of open ground within the Project alignment have been subjected to surface disturbances and grading. Ground disturbance below depths previously disturbed is not anticipated; however, only the southern portion of the Project area has been investigated for the presence of archaeological resources, and those investigations did not entail subsurface inspection. Prior survey and previously conducted subsurface investigations (construction monitoring and testing/data recovery) to the west of the Project area have identified numerous shell middens and artifact scatters, including those documented as remnants of the Gabrielino village of Puvunga (P-19-000306) and were discussed during AB 52 consultation.

Given the lack of previously conducted investigations within the northern portion of the Project area (Figure D-1), the lack of visible ground surface during prior surveys, and the results of prior investigations in the nearby vicinity, there is a possibility that previously undocumented archaeological resources requiring mitigation may be encountered during construction. Implementation of MM CUL-1 and MM CUL-3 during construction would reduce the potential impacts to unanticipated archaeological resources to less than significant. Implementation of MM CUL-1 requires that a qualified archaeologist conduct trainings of construction staff regarding the avoidance and preservation, as well as the evaluation and treatment of archaeological resources during Project construction, while MM CUL-3 requires work to stop within 100 ft of identified archaeological resources during Project construction to avoid potential impact to identified resources. Implementation of these MMs would reduce the potential impacts to unanticipated archaeological resources by identifying any archaeological resources during construction and if so, to halt work of construction activities in the immediate area so next steps regarding the archaeological resources can be implemented. Therefore, construction of the Project would result in a less than significant impact with mitigation incorporated under this criterion. During operation, the pipeline would operate underground and normal operations would not generate ground disturbance. Therefore, operation of the Project would result in no impact under this criterion.

Cultural Resources Mitigation Measures

MM CUL-1: Retention of Qualified Archaeologist and Worker Training. Prior to the issuance of a grading permit by the City of Long Beach, evidence shall be provided to the City and responsible agencies that a qualified archaeologist meeting the Secretary of the Interior's Standards for professional archaeology (U.S. Secretary of the Interior 2008) has been retained by the Applicant to conduct any required training, evaluation, or treatment of archaeological resources that might be encountered during implementation of the Project. As part of this, prior to the start of grading, the qualified archaeologist shall conduct cultural resources sensitivity training for all construction personnel. Construction personnel must be informed of the types of archaeological resources that may be encountered (both prehistoric and historical), and of the proper procedures to be enacted in the event of an inadvertent discovery of archaeological resources or

human remains. The Applicant must ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance. This documentation shall be made available to the City upon request.

See Tribal Cultural Resources Section for additional mitigation measure requirements.

MM CUL-2: Treatment of Human Remains. In accordance with California Health and Safety Code Section 7050.5, if human remains are found, the Los Angeles County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains (100 feet or as determined by the project archaeologist) shall occur until the procedures set forth in this measure have been implemented. If the County Coroner determines that the remains are, or are believed to be, Native American, the Coroner shall notify the Native American Heritage Commission (NAHC) within 24 hours. In accordance with California PRC Section 5097.98, the NAHC must immediately notify those persons it believes to be the Most Likely Descendant (MLD) from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.

See Tribal Cultural Resources Section for additional mitigation measure requirements.

- c) **Less Than Significant Impact with Mitigation Incorporated.** The Project would not occur near previously discovered or known cemeteries or burial grounds. The results of previous investigations in the vicinity indicate that the Project would not knowingly disturb any human remains, including those interred outside of dedicated cemeteries. While a majority of the southern extent of the Project area has been covered by previous archaeological survey, the surveys were conducted after the area had been subjected to modern development, and only one archaeological study has been conducted within the northern extent of the Project area. Previously conducted subsurface investigations within the review area occurred at two of the locations associated with the Gabrielino village of Puvunga. This indicates that there is a possibility for unknown human remains to be discovered within the Project Area during construction.

During construction, ground disturbance would be limited to the existing roadway along portions of Atherton Street, Studebaker Frontage Road, Studebaker Road, College Park Drive, and beneath the SR 22 ROW. Ground disturbance would be constrained to the horizontal limits of previously graded and developed lands or would not result in ground disturbance (as with the segment along the College Park Bridge, which would be attached to the north side of the existing bridge structure). Implementation of MM CUL-2 during construction would reduce the potential impacts to undiscovered human remains to less than significant. Implementation of MM CUL-2 requires work to stop within 100 ft of discovered human remains during Project construction. Implementation of this MM would reduce the potential impacts to human remains by halting work of construction activities in the immediate area. Next steps would be implemented regarding the human remains and further impacts would be avoided. Therefore, construction of the Project would result in a less than significant impact with mitigation incorporated under this criterion. During operation, the pipeline would operate underground and normal operations would not generate new ground disturbance. Therefore, operation of the Project would result in no impact under this criterion.

Cultural Resources Mitigation Measure

MM CUL-3: Archaeological Resource and/or Tribal Cultural Resource Discovery and Treatment. In the event of the unanticipated discovery of archaeological or other cultural resources, whether discovered through Native American monitoring or not, all work activities in the area (within approximately 100 feet of the discovery) shall be halted or redirected until the discovery can be evaluated by a qualified archaeologist. Construction shall not resume until a qualified archaeologist has conferred with the City and responsible agencies and, in the case of prehistoric archaeological resources and tribal cultural resources,

the Native American monitor, on the significance of the resource. If it is determined that the discovered archaeological resource and/or tribal cultural resource is significant under CEQA, avoidance and preservation in place shall be the preferred manner of mitigation, pursuant to PRC Section 21083.2(b) and Section 21084.3. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, capping, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, a Treatment Plan shall be prepared and implemented by a qualified archaeologist, in consultation with the City, that provides for the adequate recovery of the scientifically consequential information contained in the archaeological resource or cultural information in the event of a tribal cultural resource. The City shall also consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources to ensure cultural values ascribed to the resources, beyond those that are scientifically important, are considered. Any evaluation and treatment shall be supervised by an individual or individuals that meet the Secretary of the Interior’s Professional Qualification Standards.

See Tribal Cultural Resources Section for additional mitigation measure requirements.

4.6 Energy

The Energy section evaluates the potential impacts of Project on energy consumption and plans for renewable energy and energy efficiency.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact.** Construction of the Project would involve consumption of fossil fuels and electricity; however, this would be a temporary impact. Operation of the Project would not use of fossil fuels and electricity as the recycled water would flow under the influence of gravity. Maintenance of the Project would require minor consumption of fossil fuels and electricity. The proposed Project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during proposed Project construction or operation. Therefore, construction and operation of the Project would result in less than significant impact under this criterion.
- b) **No Impact.** The Project is installation of a RW pipeline and would not conflict with or obstruct a state or local plan for renewable energy or efficiency in the cities of Long Beach and Seal Beach. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.7 Geology and Soils

The Geology and Soils section evaluates the potential impacts of Southern California’s seismic events on the Project.

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact.** See discussions below.
- i) **No Impact.** The cities of Long Beach and Seal Beach, as well as all of Southern California, are impacted by earthquake faults that exist across the region. The most significant fault in the Project area is the Newport-Inglewood Fault Zone that trends northwest to southeast, running approximately parallel to the coastline, in both cities. The nearest point of the Newport-Inglewood Fault Zone is located approximately 0.7 miles southwest of the Project area. The Newport-Inglewood Fault Zone includes an Alquist-Priolo Special Studies Zone, which is located approximately 0.9 miles southwest of the Project area. The Reservoir Hill Fault, which also trends northwest to southeast, is located approximately 1 mile southwest of the Project area. Additionally, the Los Alamitos Fault, which also trends northwest to southeast, is located approximately 1.2 miles northeast of the Project area. No known faults cross the Project area (City of Long Beach, 2015a).

The Project is a recycled water pipeline and would not be inhabited. No Project elements would be located within an Alquist-Priolo Fault Zone or immediately adjacent to a known fault. Additionally, no known faults cross the Project site. Before construction standard practices require the preparation of site-specific geotechnical investigations and incorporation of structural recommendations into facility design to reduce the potential for seismic hazards to affect the integrity of project elements. Therefore, the Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving and would result in no impact under this criterion.

- ii) **No Impact.** Potential for strong seismic ground shaking from known faults in the southern California region may occur in the Project area. The Project would be susceptible to ground shaking; however, the Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving and would result no impact under this criterion.
- iii) **Less Than Significant Impact.** The Project area is located in a liquefaction zone as mapped in the GIS figure titled City of Long Beach Liquefaction Zones of Required Investigation (City of Long Beach, 2015b). While the geologic unit (Qol – Overbank levee deposits [Holocene and Pleistocene]) in the proposed Project area contain deposits of mud and sand (USGS and Association of American State Geologists, 2013; Saucedo, et al, 2016) the proposed Project does not include the construction of occupied structures. Additionally, compliance with General Plan Goals and Policies, as well as with existing building codes and regulations, would ensure that potential impacts from liquefaction would be less than significant. Therefore, seismic-related ground failure, including liquefaction potential, related to the proposed Project would be less than significant under this criterion.
- iv) **No Impact.** The majority of the Project footprint is paved and not located on a hill or slope, and no landslides are mapped in the vicinity (Saucedo, et al, 2016). Therefore, construction and operation of the Project would result in no impact under this criterion.
- b) **No Impact.** The majority of the Project footprint is paved and required measures would be implemented to prevent soil erosion during construction (e.g., Project Stormwater Pollution Prevention Plan best management practices [BMPs]). During operation, the pipeline would be located beneath the ground surface. Therefore, construction and operation of the Project would result in no impact under this criterion. The project will be required to meet the Construction General Permit (CGP) and therefore, will be entered into the Stormwater Multiple Application and Report Tracking System (SMARTS) and receive a WDID number for the project as it is considered a Type 2 LUP.
- c) **No Impact.** The Project vicinity is considered to be at risk for liquefaction, but not for landslide activity. The Project footprint is paved and basically level. Therefore, the Project is not located on a geologic unit or soil that is unstable, or that would become unstable as a result of the proposed Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. Therefore, construction and operation of the Project would result in no impact under this criterion. All of these geotechnical considerations have been addressed in the Project Geotechnical Report and Analysis.
- d) **No Impact.** The proposed Project is not located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), that would create substantial direct or indirect risks to life or property impacts related to expansive soils. Therefore, the proposed Project would result in no impact under this criterion.
- e) **No Impact.** The proposed Project would not use or construct septic tanks in the proposed Project area. Sewer systems connected to the cities' sewer system already exist in the proposed Project area and serve adjacent commercial and residential buildings. The proposed Project would not overlay soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater. Therefore, the proposed Project would result in no impact under this criterion.

- f) **Less Than Significant Impact with Mitigation Incorporated.** A review of published CEQA documentation for two previously approved projects within the City of Long Beach was conducted as part of preparing this analysis, and excerpts are as follows.

The San Gabriel River (SGR) Master Plan Final Program Environmental Impact Report (EIR) (Los Angeles County, 2006), page 4.3-16 9, does not include MMs for Paleontology. The SGR Master Plan Final EIR states:

“The geology of the Master Plan study area [including the portion of the San Gabriel River between the confluence with Coyote Creek and the Pacific Ocean] consists primarily of recent, unconsolidated alluvial materials deposited by the San Gabriel River, which have low probability of containing paleontological resources (e.g., skeletal remains, fossils). Therefore, paleontological resources are unlikely to occur in the Master Plan study area” (page 4.3-7).

The CAL Water Well and Water Treatment Plant Project (City of Long Beach, California, 2021) Attachment C - Cultural/Paleontological Resources Report includes a list of the closest known fossil localities near the Project in the collection of the Natural History Museum of Los Angeles County. The list identifies fossil localities in “Pleistocene unknown formation” at depths from 5 feet below ground surface (bgs) to 735 ft bgs, with one locality identified in “Pleistocene unknown formation” with a depth listed as “unknown”. The CAL Water Well and Water Treatment Plan Project site is located approximately 7.5 miles north-northwest of the Hayne Generating Station Project area.

The Pleistocene to Holocene-aged overbank levee deposits (Qol) geologic unit is mapped throughout the Project area and is composed of mud and sand (Saucedo, et al, 2016). The Qol geologic unit in the vicinity of the Project area has been previously disturbed by road construction and paving activities, with some minor areas disturbed during landscape installation.

Based on review of the San Gabriel River Master Plan Final Program EIR and the CAL Water Well and Water Treatment Plan Project Initial Study/Mitigated Negative Declaration Paleontological Record Search Results (Los Angeles County, 2006), the potential exists for paleontological resources to be present below ground surface. Therefore, the unanticipated discovery of paleontological resources during proposed Project-related ground disturbance is a possibility.

Impacts would be avoided or minimized through implementation MM GEO-1 for inadvertent discovery of archaeological or paleontological resources during earth moving activities. Therefore, construction and operation of the Project would result in less than significant impacts under this criterion.

Geology and Soils Mitigation Measure

MM GEO-1: Paleontological Resources Inadvertent Discovery. In the event paleontological resources are encountered during the course of ground disturbing activities, all such activities shall halt immediately. The applicant shall immediately notify the cities of Long Beach and/or Seal Beach and consult with a qualified paleontologist to assess the significance of the find.

The paleontological assessment shall be completed in accordance with the Society of Vertebrate Paleontology standards. If the find is identified as insignificant, no additional measures will be necessary. If the find is determined to be significant, appropriate avoidance measures recommended by the qualified paleontologist and approved by the cities of Long Beach and/or Seal Beach must be followed unless avoidance is determined infeasible. If avoidance is infeasible, other appropriate measures (e.g., data recovery, excavation, curation) as recommended by the qualified paleontologist shall be instituted.

A qualified professional paleontologist is a professional with a graduate degree in paleontology, geology, or related field, with demonstrated experience in the vertebrate, invertebrate, or botanical paleontology of California, as well as at least one year full time professional experience, or equivalent specialized training in paleontological research (i.e., the identification of fossil deposits, application of paleontological field and

laboratory procedures and techniques, and curation of fossil specimens), and at least 4 months of supervised field and analytic experience in general North American paleontology.

4.8 Greenhouse Gas Emissions

The information and analysis presented in this greenhouse gas emissions section is based on the Air Quality and GHG Technical Memorandum prepared by AZTEC Engineering Group, Inc. (Appendix A) for the Project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact.** The analysis of GHG emissions for the Project is an aggregate quantity requiring summation over the total estimated number of work days (i.e., the total number of days that any construction grading vehicle would have an engine running). Construction of the Project would result in temporary emissions associated with diesel engine combustion from mass grading, and site preparation construction equipment would be assumed to occur for engines running at the correct fuel-to-air ratios (the ratio whereby complete combustion of the diesel fuel occurs).

Construction-related GHG emissions include site preparation, excavation, and associated construction of the proposed RW pipeline. Utilizing the CalEEMod model, CO₂, CH₄, N₂O and CO₂e emissions were evaluated for construction and operation of the Project. Modeling results are shown in greater detail within Appendix A. The results of the CalEEMod model for construction of the Project are shown in Table 9 below.

For the purposes of this analysis, both direct and indirect GHG emissions from the Project are discussed in the context of the SCAQMD’s 10,000 metric ton (MT) threshold levels (SCAQMD, 2023b) and the goals outlined in the City of Long Beach’s Climate Action Plan (CAP) (City of Long Beach, 2022). A Project would be considered not significant if the GHG emissions are less than the SCAQMD threshold and in line with the City of Long Beach’s CAP. In 2022, the City of Long Beach developed CAP which established a goal of net zero emissions for the entire city by 2045 (City of Long Beach, 2022). According to the CalEEMod model results presented in Table 9, the Project’s construction GHG emissions would not exceed the SCAQMD threshold; therefore, construction of the Project would result in less than significant impact under this criterion.

During operation, the Project’s GHG emissions would be negligible and comparable to existing conditions. Most operational emissions would be associated with maintenance vehicular trips due to the Project operating underground. Maintenance trips would occur infrequently and would be limited in extent at any given time; thus, the operational emissions would not be substantial. According to the CalEEMod model results, the Project’s operation would emit approximately 30.3 MT of CO₂e annually, which is below the SCAQMD threshold of 10,000 MT per year and is in line with the reduction of emissions by the City of Long Beach’s CAP. Thus, operation and maintenance would not result in a significant emission of GHGs. Therefore, operation of the Project would result in less than significant impact under this criterion.

**Table 9. Construction Greenhouse Gas Emissions
(CalEEMod Results)**

Year	Pollutant Emission Rates (metric tons/year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
2025	351.6	0.10	0	354.6
2026	548.4	0.16	0	552.9
Total	900	0.26	0	907.5
Notes: CH ₄ =methane; CO ₂ =carbon dioxide; CO ₂ e=carbon dioxide equivalent; N ₂ O=nitrous oxide; SCAQMD=South Coast Air Quality Management District				

- b) **Less Than Significant Impact.** Multiple plans, regulations and policies currently guide the State of California’s target emissions. Assembly Bill (AB) 1493 requires the California Air Resources Board (CARB) to set GHG emission standards for passenger vehicles, light duty trucks, and noncommercial personal transportation vehicles manufactured in 2009 and beyond. The CARB has since adopted standards for future models, referred to as the Low Emission Vehicle III, for 2017 to 2025 model years (CARB, 2023b). California Governor Executive Orders (EO) B-30-15 and S-3-05 established GHG reduction targets for the State of California, and EO B-55-18 established carbon emission targets for the State of California (Cal. Governor’s EO B-30-15, 2015; Cal. Governor’s EO S-3-05, 2005; Cal. Governor’s EO B-55-18, 2018). AB 32 (i.e., the California Global Warming Solutions Act of 2006) requires the State of California’s GHG emissions be reduced to 1990 levels by the year 2020 (CARB, 2023a). AB 32 also requires the CARB to develop a Scoping Plan to outline how the state would achieve California’s carbon neutrality targets and GHG emissions reductions (CARB, 2022). The CARB’s most recent 2022 Scoping Plan outlines a path for California to achieve carbon neutrality by 2045 and assesses the state’s efforts to reducing GHG emissions by 40 percent below 1990 levels by the year 2030. The City of Long Beach developed a Climate Action Plan in 2022 which established the goal of carbon neutrality citywide by the year 2045 (City of Long Beach, 2022). As discussed above, the Project’s construction and operation would not result in a significant increase in GHG emissions; thereby, the Project’s construction and operation would comply with the plans, policies and regulations adopted for the purpose of reducing GHG emissions. Therefore, construction and operation of the Project would result in less than significant impact under this criterion.

4.9 Hazards and Hazardous Materials

The Hazards and Hazardous Materials section of this document evaluates any potential impacts from hazardous substances caused by the Project. An environmental database records search was requested from Environmental Risk Information Services (ERIS, 2022) and is included in Appendix E. The results of the records search were used in the Hazards and Hazardous Materials analysis and no fieldwork was conducted.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact.** Construction activities would involve the limited transport, storage, and use of potentially hazardous materials such as petroleum products, diesel fuel, gasoline, sewer gas, wastewater, and other chemicals associated with construction vehicles and equipment. However, the contractor would be required to comply with applicable federal, state, and local regulations established by the U.S. Environmental Protection Agency (U.S. EPA) and California Department of Toxic Substances Control, the Occupational Safety and Health Administration (OSHA) and the California Division of Occupational Safety and Health, and the Long Beach Certified Unified Program Agency governing the storage, handling, and disposal of potentially hazardous materials. Any associated risk would be adequately reduced to a less than significant level through compliance with these standards and regulations. Therefore, construction of the Project would result in less than significant impact under this criterion. During operation, the Project would operate underground and normal operations would not involve the transport, storage, or use of hazardous materials. Therefore, operation of the Project would result in no impact under this criterion.
- b) **Less Than Significant Impact with Mitigation Incorporated.** During construction, limited quantities of potentially hazardous materials (e.g., petroleum-based products, diesel fuel) would be transported, used, stored, and disposed of according to federal, state, and local regulations (as described above). However, there is still a possibility of accidental spills or releases during construction. Implementation of MM HAZ-1 would avoid and minimize potential impacts due to the onsite use, and storage if it is determined to be necessary, of hazardous materials during construction. The implementation of MM HAZ-1 would be

required as a part of the Contractor's compliance with the California Regional Water Quality Control Board's (RWQCB) CGP for SWPPP BMPs. Thus, MM HAZ-1 would reduce the likelihood of spills or hazardous emissions. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion. During operation and maintenance, the Project would operate underground, and normal operations would not cause the release of hazardous materials. However, there is a possibility of accidental spills or releases from maintenance equipment (e.g., work trucks) associated with maintenance vehicular trip. Therefore, operation of the Project would result in less than significant impact under this criterion.

Hazards and Hazardous Materials Mitigation Measure

MM HAZ-1: Hazardous Materials Use, Storage, and Containment

- Provide methods, means and facilities required to prevent contamination of soil, water, or atmosphere by discharge of noxious substances from construction as well as operation and maintenance.
- Provide equipment and personnel required to perform emergency measures required to contain spillages and to remove contaminated soils or liquids.
- Excavate and properly dispose of contaminated soil off-site and replace with suitable compacted fill and topsoil.
- Take measures to prevent harmful substances from entering public waters.
 - Prevent disposal of wastes, effluents, chemicals, or other such substances near rivers, drainages, or in sanitary or storm sewers.
- Provide systems for control of atmospheric pollutants.
 - Prevent toxic concentrations of chemicals.
 - Prevent harmful dispersal of pollutants into atmosphere.
- Contractor's equipment used during construction as well as operation and maintenance shall conform to current Federal, State, and local laws, ordinances, regulations, and standards.
- If paints containing Lead or Chromium are to be physically disturbed or made airborne during progress of Work by activities such as abrasive blasting, welding, cutting, or torch burning; provide appropriate protection in accordance with the OSHA Lead in Construction Standard and Title 8 California Code of Regulations (T8 CCR) Section 1532.1.
- Protect site to prevent leaks and spills of fuel, oil, solvents, grease and other chemicals onto ground or pavement.
 - Regularly maintain equipment and vehicles during construction as well as operation and maintenance activities.
 - Place containment beneath compressor, welding machines, and fuel/oil storage areas to capture spills (plastic sheeting with berms, portable butyl containments, etc).
 - Place absorbent material on plastic sheeting, remove when saturated, and replace with fresh absorbent material.
 - Monitor fueling and equipment servicing to prevent leaks and spills.
 - Store absorbent material in dry condition on-site for cleanup of spills.

- c) **Less Than Significant Impact with Mitigation Incorporated.** Three schools are located within one-quarter mile of the Project. The Eugene Tincher Preparatory School (1701 Petaluma Avenue, Long Beach) is located approximately 0.07 miles west of the Project. The Eunice Sato Academy for Math and Science and Walter B Hill Classical Middle School (1100 Iroquois Avenue, Long Beach) is located approximately 0.05 miles west of the Project (on the western side of the Los Cerritos Channel). The Charles F Kettering Elementary School (550 Silvera Avenue, Long Beach) is located approximately 0.17 miles southwest of the Project.

Construction activities would involve the limited transport, storage, and use of potentially hazardous materials associated with construction vehicles and equipment. The contractor would be required to comply with applicable federal, state, and local regulations; however, there is still a possibility of accidental spills or releases during construction. Implementation of MM HAZ-1 would reduce the likelihood of spills or hazardous emissions and this will be required as a part of the Contractor's compliance with the RWQCB's CGP for SWPPP BMPs. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion. During operation, the Project would operate underground, and normal operations would not cause emissions or handling of hazardous materials. Therefore, operation of the Project would result in no impact under this criterion.

- d) **No Impact.** An environmental database records search was conducted pursuant to Government Code § 65962.5 on December 8, 2022, of federal, state, and local environmental databases to determine if there are hazardous materials sites present within one quarter mile of the Project limits (Appendix E, Environmental Risk Information Services [ERIS] Database Report). The list of hazardous materials sites was reviewed according to the following criteria to determine if any sites could affect or be affected by the Project: 1) proximity to the Project, 2) estimated groundwater flow direction, 3) potential for subsurface impacts to both soil and groundwater, 4) contaminants of concern, 5) potential volume of facility hazardous chemical use, and 6) current regulatory status of the site. There were no findings for sites located within the boundaries of the Project, but there were 231 findings for adjacent properties up to one quarter mile from the Project limits. Detailed review of the findings indicated that four hazardous material sites were identified as requiring additional discussion (below). The remaining findings were not found to be an environmental concern relative to the Project.

Service Station 4849. 1190 Studebaker Rd, Long Beach, CA 90815. This site is located on an adjacent property near Project segment RW 1-10. Records indicate the site was formerly a gas station that contained an underground storage tank (UST). The likelihood of a significant hazard to the public or environment from this site is low due to: 1) no other records were found to indicate that a release of the UST had occurred; 2) no new fueling operations are present at this location; 3) the former facility has been redeveloped as part of a larger retail / commercial property, with much of the original service station location covered with an existing 7-11 convenience store; and 4) the estimated depth of excavation for the Project in the site vicinity would be 3 ft bgs or less to the top of the RW pipe. No known USTs or releases are mapped within the Project's footprint. In the event hazardous materials are encountered during ground disturbing activities, the materials will be handled, transported, and disposed consistent with current regulations. Therefore, construction of the Project would result in less than significant impact under this criterion.

Retirement Housing Foundation. 911 Studebaker Rd, Long Beach, CA 90815. This site is located on an adjacent property near Project segment RW 1-10. Records indicate the site was formerly a gas station that contained a leaking underground storage tank (LUST) from former fueling operations. The likelihood of a significant hazard to the public or environment from this site is low due to: 1) closure of the LUST case in 2013; 2) the property has been fully redeveloped as a senior living center; and 3) the estimated depth of excavation for the Project in the site vicinity would be 3 ft bgs or less to the top of the RW pipe. According to GeoTracker (2023), the release from the UST has been stopped and the contaminant plume

poses a low threat to human health and safety and the environment and water quality, and it was also determined that the petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health. The California Bureau of Environmental Health Department of Health and Human Services issued a “Closure/No Further Action Letter” on April 13, 2012, which states five USTs were removed and no further action at the site is required. Thus, it is unlikely excavation associated with the project would encounter contaminated soils or hazardous materials. In the event hazardous materials are encountered during ground disturbing activities, the materials will be handled, transported, and disposed consistent with current regulations. Therefore, construction of the Project would result in less than significant impact under this criterion.

Los Altos Pumping Plant. 6560 E Anaheim Rd, Long Beach, CA 90815. This site is located approximately 0.12 miles west of Project segment RW 1-10. Records indicate the site contains a facility categorized as an U.S. EPA Resource Conservation and Recovery Act Large Quantity Generator of hazardous waste. The likelihood of a significant hazard to the public or environment from this site is low due to: 1) distance from the Project; 2) the facility is a public entity and thus is likely held to a higher regulatory standard than other similar privately owned properties; 3) no violations at the site were noted; 4) the estimated depth of excavation for the Project in the site vicinity would be 3 ft bgs or less. It is unlikely the Project would encroach upon the site or contaminants, as the RW pipe would be constructed within Studebaker Road and not on the site’s property. In addition, no hazardous releases from the site have been recorded; thus, it is unlikely excavation associated with the project would encounter contaminated soils or hazardous materials. In the event hazardous materials are encountered during ground disturbing activities, the materials will be handled, transported, and disposed consistent with current regulations. Therefore, construction of the Project would result in less than significant impact under this criterion.

Los Angeles County Public Works – Stormwater Maintenance Alamitos Yard. 881 Iroquois St, Long Beach, CA 90815. This site is located approximately 0.18 miles west of Project segment RW 1-10. Records indicate the site once contained a LUST case from former fueling operations. The likelihood of a significant hazard to the public or environment from this site is low due to: 1) closure of the LUST case; 2) distance from the Project; 3) the facility is a public entity and thus is likely held to a higher regulatory standard than other similar privately owned properties; 4) the estimated depth of excavation in the site vicinity for the Project would be 3 ft bgs or less. According to GeoTracker (2023), the LUST was removed in 2003. While a “Closure/No Further Action Letter” has not been issued for this site, no remedial actions have since taken place and the site continues to participate in the California RWQCB groundwater modeling program. It is unlikely the Project would encroach upon the site or contaminants, as the RW pipe would be constructed within Studebaker Road and no releases or groundwater contaminants have been recorded; thus, it is unlikely excavation associated with the project would encounter contaminated soils or hazardous materials. In the event hazardous materials are encountered during ground disturbing activities, the materials will be handled, transported, and disposed consistent with current regulations. Therefore, construction of the Project would result in less than significant impact under this criterion.

On the basis of this analysis of the database findings, no outstanding enforcement actions, violations, or uncompleted remediation efforts/orders were identified for any of the sites listed above. Thus, construction of the Project is not located on or near a site that would create a significant hazard to the public or environment. Therefore, construction of the Project would result in no impact under this criterion. During operation, the Project would operate underground, and normal operations would not generate hazardous materials that would create a significant hazard to the public or environment. Therefore, operation of the Project would result in no impact under this criterion.

- e) **No Impact.** The Project is not located within two miles of a public airport. The closest public airport is Long Beach Airport (4100 Donald Douglas Drive, Long Beach) located approximately 2.5 miles northwest of the

Project. The Project falls outside the planning boundary for the Long Beach Airport Influence Area (Los Angeles County Land Use Commission, 2003). The Project is located approximately 2 miles southwest of the Joint Forces Training Base (JFTB), Los Alamitos (11206 Lexington Dr, Los Alamitos), and falls within the JFTB Airport Planning Area. However, the Project area is outside the noise contour impact zones of the JFTB (Orange County Airport Land Use Commission, 2017). Due to the distance from the nearest public airport, the Project would not result in a safety hazard or excessive noise for people residing or working in the Project area during construction. During operation, the Project would operate underground and would not result in a safety hazard or excessive noise for people residing or working in the Project area. Therefore, construction and operation of the Project would result in no impact under this criterion.

- f) **No Impact.** The City of Long Beach and the City of Seal Beach have implemented Emergency Operations Plans (EOPs) for their respective cities, which guides the response, mobilization, and recovery efforts of the city before, during, and after emergency situations (City of Long Beach, 2015c; City of Seal Beach, 2017). Within the EOPs, both cities would utilize their respective police, fire, and public works services for disaster response and recovery efforts (City of Long Beach, 2015c; City of Seal Beach, 2017). During construction, notification to fire and police services within the City of Long Beach and City of Seal Beach would be sent notification prior to any closing, partial closing, or reopening of a street, alley, or other public thoroughfare, as applicable. Lane and short-term roadway closures or temporary detours may result in minor increases in vehicle miles traveled (VMT). However, the temporary nature of construction activities for the Project would not permanently close or block long-term road access that would impair or otherwise interfere with an emergency response plan or emergency evacuation plan as specified in the EOPs. During operation, the Project would operate underground and would not affect traffic or otherwise interfere with an emergency response plan or emergency evacuation plan as specified in the EOPs. Therefore, construction and operation of the Project would result in no impact under this criterion.
- g) **No Impact.** The Project is located within a developed, urbanized area that does not contain and is not adjacent to any wildland areas. The Project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires during construction or operation. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.10 Hydrology and Water Quality

The Hydrology and Water Quality section evaluates the impact of the Project on water quality standards or waste discharge requirements. The section also considers impacts to the drainage of the property and potential impacts from storm water runoff to streams, rivers, or the Pacific Ocean.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) result in a substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact.** The Project area is under the jurisdiction of the California RWQCB Los Angeles Region for issues related to water quality. Construction of the Project, and its associated potential to impact water quality, is considered to be nonpoint source pollution. During construction, the proposed construction activities at the site would implement BMPs to reduce potential impacts to water quality. Additionally, construction of the Project would disturb more than 1 acre of land, which would require the preparation of a Storm Water Pollution Prevention Plan (SWPPP). Implementation of the SWPPP would result in the Project not violating water quality standards or waste discharge requirements or otherwise substantially degrading surface or ground water quality. The Project is a Linear Underground Project and would be included in the SMARTS. The SMARTS allows applicants to enter, manage, and view stormwater data associated with California’s Storm Water General Permits. The Project’s SWPPP would be permitted (with a Waste Discharge Identification Number) and managed under the SMARTS system. Therefore, construction of the Project would result in less than significant impact under this criterion. During operation and maintenance, the Project would operate underground and would not introduce new point or nonpoint source pollution. Therefore, operation of the Project would result in no impact under this criterion.
- b) **No Impact.** The Project’s installation of a RW pipeline would not result in changes to stormwater drainage and the Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge. In addition, the Project would not impede sustainable groundwater management

of the basin. During construction, a RW pipeline would be installed via trenching or direct drilling (under SR 22) and trenched areas would be backfilled once pipeline installation is complete. During operation, the Project would operate underground and would not affect stormwater drainage. Therefore, construction and operation of the Project would result in no impact under this criterion.

- c) **No Impact.** During construction and operation, ground disturbing activities would be returned to pre-construction conditions, to the extent practical. During operation, the Project would operate underground. Therefore, construction and operation of the Project would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces that would:
- i) **No Impact.** Result in substantial erosion or siltation on- or off-site. The existing site is within a developed urban setting with existing paved roads and sidewalks. A single watercourse, the San Gabriel River, is located within the Project area. During construction and operation, the Project activities in the vicinity of the San Gabriel River would be limited to attaching the RW pipeline on the College Park Drive bridge and no impact to the watercourse would occur. This will be required to be a submittal to be prepared by the Contractor and approved by all parties. Additionally, the Project would not increase impervious surfaces in the area and a SWPPP would be prepared for the Project. Implementation of a SWPPP and associated BMPs would prevent surface water runoff on- and off-site. As such, the Project would not result in erosion or siltation on- or off-site. Therefore, construction and operation of the Project would result in no impact under this criterion.
 - ii) **No Impact.** Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site. The existing area surface water runoff is managed by the City of Long Beach's and Seal Beach's stormwater runoff system and the Project surface water runoff would also be managed through the cities' stormwater system. During construction and operation, Project activities would not impact existing storm drains and would not increase impervious surfaces in the area. As such, the Project would not increase the rate or amount of surface runoff as the type of surface will not be changed as a part of this project but restored to pre construction conditions. Therefore, construction and operation of the Project would result in no impact under this criterion.
 - iii) **No Impact.** Create or contribute to runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. The existing area surface water runoff is managed by the city of Long Beach's and Seal Beach's stormwater runoff system and the Project surface water runoff would also be managed through the cities' stormwater system. During construction and operation, Project activities would not increase impervious surfaces in the area as the type of surface will not be changed as a part of this project. As such, the Project would not create or contribute to runoff water. Therefore, construction and operation of the Project would result in no impact under this criterion.
 - iv) **No Impact.** Impede or redirect flood flows. During construction and operation, the Project would not impact existing stormwater drainage systems. In addition, the Project's installation of a recycled water pipeline would not result in changes to the pre-construction stormwater drainage patterns of the Project site. The finished grade will not be adjusted but restored to pre-construction conditions. As such, no impacts related to impeding or redirecting flood flows are anticipated. Therefore, construction and operation of the Project would result in no impact under this criterion.
- d) **Less Than Significant Impact.** The Project is situated within the Federal Emergency Management Agency (FEMA) Flood Hazard Zones A and X. The majority of the Project alignment falls within Flood Hazard Zone X. Flood Hazard Zone X indicates that location lies within an area with a reduced flood risk due to a levee. Flood Hazard Zone A is confined to the channel of the San Gabriel River. Flood Hazard Zone A indicates that location lies within an area with a 1 percent annual chance of flood hazard. Additionally, the portion of the

San Gabriel River that flows beneath the Project alignment is within a mapped tsunami zone (California Geological Survey, 2022). During construction and operation, there would be risk of releasing pollutants from inundation, as the Project alignment would occur where there is a tsunami hazard and has potential to be subject to inundation from a temporary disturbance or oscillation of the water level. This will be addressed as a part of the Contractor’s LUP and associated Waste Discharge Identification Number and PRD documents submitted to the RWQCB in order to meet the CGP. However, Project activities within the Flood Hazard Zone A and mapped tsunami zone would be limited to attaching the RW pipeline from the College Park Drive bridge over the San Gabriel River. Therefore, construction and operation of the Project would result in less than significant impact under this criterion.

- e) **No Impact.** The existing areas surface water runoff is managed by the City of Long Beach’s and Seal Beach’s stormwater runoff system and the Project surface water runoff would also be managed through the cities’ stormwater systems. During construction and operation, the Project would not impact existing storm drain systems. As such, the Project would not conflict with implementation of the City of Long Beach and Seal Beach Stormwater Management Plans or an enforceable element of either City’s National Pollutant Discharge Elimination System (NPDES) MS4 Permit. Therefore, construction and operation of the Project would result in no impact under this criterion. In addition, the construction will adhere to the CGP and this project is classified as a Linear Underground Project and will be submitted into the SMARTs system.

4.11 Land Use and Planning

The Land Use and Planning section evaluates any potential conflicts between the Project and the City of Long Beach’s General Plan and Zoning Code or City of Seal Beach’s General Plan and Zoning Code, or any habitat conservation plan established by either city.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING. Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No Impact.** Most of the Project would be constructed underground, except for the segment of pipeline that would be attached to the north side of the College Park Drive bridge structure. The Project would be constructed underneath existing roadways or within existing road right-of-way; thus, the Project would not physically divide an established community. The Project would operate underground and thus would not cause a division of an established community. Therefore, construction and operation of the Project would result in no impact under this criterion.
- b) **No Impact.** The Project area is not within a habitat conservation plan. Most of the Project would be constructed underground, except for the segment of pipeline that would be attached to the north side of the College Park Drive bridge structure. The City of Long Beach Urban Water Management Plan (UWMP) dictates the use and actions of water and conservation activities within the city (City of Long Beach, 2020). The Seal Beach UWMP assesses the city’s present and future water supply sources and demands (City of Seal Beach, 2021). During construction and operation, the Project’s surface water runoff would be managed

through the cities’ stormwater cities and would not impact existing storm drain systems. A minor amount of water may be used by the Project during construction (e.g., dust control) and/or for compaction of the backfill which would be supplied from existing, sufficient local supplies. The Project does not require an external source of water to operate. As such, the Project would not increase the rate or amount of surface runoff as the type of surface will not be changed as a part of this project but restored to pre-construction conditions. Thus, the Project would not impact demand, water supplies, or conservation targets as outlined in the cities’ UWMPs and would be in compliance with the UWMPs. During construction, the Project would conform to applicable permits, and standard specifications for pipelines and Long Beach Public Works Construction. Construction of the Project would comply with Cities of Long Beach and Seal Beach municipal codes (LBMC Section 15.44; SBMC Section 9.55) regarding construction of minor utilities. During operation, the Project would operate underground and would not conflict with any land use plan, policy or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.12 Mineral Resources

The Mineral Resources section analyzes any impacts the Project might have on mineral resources in the City of Long Beach or the City of Seal Beach.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES. Would the project:				
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No Impact.** According to the City of Long Beach SEASP and the California Department of Conservation Well Statewide Tracking and Reporting System (WellSTAR) database, a portion of segment RW 1-15 (south of SR 22 and the tie-in to HGS property) is located within the Seal Beach Oil/Gas Field; however, there are no oil wells located within the Project area (State of California, 2022c). According to the City of Seal Beach’s General Plan, there are no active oil or gas facilities within or adjacent to the Project area (City of Seal Beach, 2003d). Construction and operation of the Project would not affect any known mineral resources. Therefore, construction and operation of the Project would result in no impact under this criterion.
- b) **No Impact.** No mineral resource recovery sites are delineated on a City of Long Beach or City of Seal Beach general plan, specific plan, or other land use plan for the project area. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.13 Noise

The noise section evaluates the noise and vibration impacts of the Project and the impact of the noise environment on the Project itself.

The information and analyses presented in this noise section are based on the Noise and Vibration Technical Memorandum prepared by AZTEC Engineering Group, Inc. (Appendix F) for the Project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE. Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Generation of excessive ground-borne vibration or ground-borne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact with Mitigation Incorporated.** The Project is located within the City of Long Beach and City of Seal Beach; thus, the Project construction and operation must comply with the general plans and noise ordinances for each jurisdiction.

The Noise Element of the City of Long Beach General Plan establishes average maximum noise levels for construction equipment and related activities. For construction sites located away from main roads or sources of industry, the average maximum noise levels outside a building should not exceed 70 A-weighted decibels (dBA). For construction sites located near main roads and sources of industry, the average maximum noise levels outside a building should not exceed 75 dBA (City of Long Beach, 1975a; City of Long Beach, 2023). The City of Long Beach’s municipal code establishes exterior and interior noise restrictions for the generation of sound within the city’s limits. The municipal code defines noise limits by land use and restricts construction activities to weekdays between 7:00 AM and 7:00 PM, Saturdays between 9:00 AM and 6:00 PM, and does not allow work to occur on Sundays unless otherwise authorized by a permit (LBMC Section 8.80).

Construction of the Project would require the use of heavy equipment, which has the potential to result in a temporary (short term) increase in ambient noise levels. Implementation of MM N-1 during construction would ensure the Project complies with the time restrictions established in the City of Long Beach noise ordinance. Thus, MM N-1 would reduce the potential impacts associated with increase in ambient noise to nearby sensitive land use/receptors.

The Noise Element of the City of Seal Beach General Plan establishes residential land uses as the most sensitive to noise, with a maximum noise exposure of 65 dBA (City of Seal Beach, 2003c). The City of Seal Beach’s municipal code exempts construction and maintenance related activities from the City of Seal Beach noise provisions. The municipal code restricts construction activities to workdays [Monday through Friday] between 7:00 AM and 8:00 PM, and Saturdays between 8:00 AM and 8:00 PM. Maintenance activities are restricted to the same construction time restrictions; however, maintenance activities would be allowed to occur on Sundays or holidays between 9:00 AM and 8:00 PM (SBMC Section 7.15).

Construction of the Project would require the use of heavy equipment, which has the potential to result in a temporary (short term) increase in ambient noise levels. Implementation of MM N-1 during construction

would ensure the Project complies with the time restrictions established in the City of Seal Beach noise ordinance. Thus, MM N-1 would reduce the potential impacts associated with an increase in ambient noise to nearby sensitive land use/receptors.

The Project would operate underground and occasional maintenance may be required.

The Project's maintenance noise levels would be similar to ambient traffic noise; thus, maintenance would be a negligible increase in noise levels to sensitive receptors. Day and time restrictions within the City of Long Beach's municipal code do not apply to construction maintenance and repair operations; therefore, maintenance associated with the pipeline would comply with City of Long Beach noise ordinances.

Maintenance is not anticipated to occur outside of the time restrictions in the City of Seal Beach municipal code; therefore, maintenance of the pipeline would comply with City of Seal Beach noise ordinances.

Thus, operation of the Project would comply with the noise level and time restrictions established in the City of Long Beach and City of Seal Beach noise ordinances.

Sensitive Land Uses

Sensitive land uses, as defined in the City of Long Beach Noise Element (City of Long Beach, 2023) and City of Seal Beach Noise Element (City of Seal Beach, 2003), typically include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. The majority of the land use in the Project area is residential. The closest residences to the Project site are the homes along the Studebaker Access Road / SR 22 off-ramp, located approximately 15 feet from the residential privacy walls located adjacent to the pipeline alignment. Representative sensitive receptors for the Project area include the following:

- R1: Residence (1639 Studebaker Rd, Long Beach) located approximately 32 feet (10 meters) west of the Project.
- R2: Residence (6902 E Rendina St, Long Beach) located approximately 155 feet (47 meters) east of the Project.
- R3: Residence (1429 Studebaker Rd, Long Beach) located approximately 30 feet (9 meters) west of the Project.
- R4: Residence (1344 Studebaker Rd, Long Beach) located approximately 155 feet (47 meters) east of the Project.
- R5: Residence (1263 Studebaker Rd, Long Beach) located approximately 35 feet (11 meters) west of the Project.
- R6: Residence (6705 Anaheim Rd, Long Beach) located approximately 32 feet (10 meters) east of the Project.
- R7: Residence (893 Lees Ave, Long Beach) located approximately 43 feet (13 meters) east of the Project.
- R8: Residence (849 Lees Ave, Long Beach) located approximately 22 feet (7 meters) east of the Project.
- R9: Residence (803 Lees Ave, Long Beach) located approximately 12 feet (4 meters) east of the Project.
- R10: Residence (6840 Septimo Street, Long Beach) located approximately 62 feet (19 meters) north of the Project.
- R11: Park (99 College Park Drive, Seal Beach) located approximately 32 feet (10 meters) north of the Project.

Use of construction equipment (e.g., heavy equipment) for the Project would create short term increases to noise levels in the Project area. The sensitive receptors would experience a temporary and periodic increase above ambient noise levels. However, the temporary increase in noise would cease once Project construction is complete.

The Roadway Construction Noise Model was used to predict Project construction noise levels. The predicted maximum and average construction noise levels for the sensitive receptors under the worst case scenario are shown in Table 10. Detailed construction noise calculations are included in Appendix F. Construction noise during the Project's pavement removal phase would be the loudest (L_{max} ranges from 72.5 dBA to 83.6 dBA; and L_{eq} ranges from 70.8 dBA to 81.9 dBA) for the 11 modeled receivers as shown in Table 10.

Ambient noise within the Project area is dominated by roadway traffic noise; thus, existing traffic noise levels were modeled for the Project area utilizing the SoundPLAN computer noise model. Noise level increases between the loudest construction phase (i.e., pavement removal) and ambient traffic noise are shown in Table 11. Project construction would increase noise levels by 7.7 dBA to 20.0 dBA over existing ambient traffic noise and would exceed the allowable noise level for the City of Long Beach by 5.8 dBA to 14.0 dBA depending on the sensitive receptor. The increase in noise associated with Project construction would be temporary and would cease once construction of the Project is complete. Implementation of MM N-1 would minimize construction noise levels and limit sensitive receptor exposure to construction noise to allowable times. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not generate noise sources. Noise from maintenance vehicular trips (e.g., work trucks) would be similar to ambient traffic noise and would be short term and temporary in nature; thus, operation and maintenance noise levels would be a negligible increase in noise levels to sensitive receptors. Therefore, operation of the Project would result in less than significant impact under this criterion.

Table 10. Construction Equipment Noise Levels

ID	Site Preparation		Pavement Removal		Pipeline Installation		Paving	
	L _{max}	L _{eq}	L _{max}	L _{eq}	L _{max}	L _{eq}	L _{max}	L _{eq}
R1	78.4	76.2	81.3	79.7	78.4	76.2	81.0	77.1
R2	70.3	68.1	73.2	71.6	70.3	68.1	72.9	69.0
R3	80.7	78.4	83.6	81.9	80.7	78.4	83.2	79.4
R4	69.6	67.3	72.5	70.8	69.6	67.3	72.1	68.2
R5	77.8	75.5	80.7	79.0	77.8	75.5	80.3	76.4
R6	79.1	76.9	82.0	80.3	79.1	76.9	81.6	77.8
R7	72.4	70.2	75.3	73.7	72.4	70.2	75.0	71.1
R8	75.8	73.6	78.7	77.0	75.8	73.6	78.3	74.5
R9	75.6	73.4	78.5	76.8	75.6	73.4	78.1	74.3
R10	69.6	67.3	72.5	70.8	69.6	67.3	72.1	68.2
R11	77.8	75.5	80.7	79.0	77.8	75.5	80.3	76.4

Note:

R1 to R11 correspond to the Project's Sensitive Receiver locations; L_{max} = maximum A-weighted sound level; L_{eq} = average noise level over a period of time; L_{max} and L_{eq} are measured in dBA; dBA = A-weighted decibel.

Table 11. Construction Noise Increase Over Allowable Noise Levels

ID	Pavement Removal		Traffic Noise	Allowable Noise Levels	Noise Level Increase
	L _{max}	L _{eq}	L _{eq}	L _{eq}	L _{eq}
R1	81.3	79.7	62.6	65	14.7
R2	73.2	71.6	63.9	65	6.6
R3	83.6	81.9	63.6	65	16.9
R4	72.5	70.8	61.8	65	5.8
R5	80.7	79.0	62.9	65	14.0
R6	82.0	80.3	67.0	70	10.3
R7	75.3	73.7	63.0	65	8.7
R8	78.7	77.0	57.6	65	12.0
R9	78.5	76.8	56.8	65	11.8
R10	72.5	70.8	54.7	65	5.8
R11	80.7	79.0	60.8	65	14

Note:

R1 to R11 correspond to the Project’s Sensitive Receiver locations; L_{max} = maximum A-weighted sound level; L_{eq} = average noise level over a period of time; L_{max} and L_{eq} are measured in dBA; dBA = A-weighted decibel.

When determining the allowable noise levels, a 6 dBA noise reduction was assumed for privacy walls.

Noise Mitigation Measure

MM N-1: Noise Restrictions. Construction activities shall be limited to the hours of 7:00 AM and 7:00 PM on Monday through Friday. No construction shall be conducted on Saturdays, Sundays and City holidays unless otherwise approved by The Board of Water Commissioners of the City of Long Beach. If approved, construction activities on those days would be limited to the hours of 9:00 AM to 6:00 PM. All construction equipment shall use properly operating mufflers.

- b) **Less Than Significant Impact.** Construction of the Project would require the use of heavy equipment, which has the potential to result in vibration that could disturb nearby residents and/or cause cosmetic damage to existing adjacent buildings or structures. The vibration descriptor used to determine structural damage is the peak particle velocity (ppv), which is defined as the maximum instantaneous positive or negative peak of the vibration signal (inches/second).

Caltrans developed thresholds for ground borne vibrations and human response, as well as structural vibration damage for modern structures for intermittent sources (e.g., impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory construction equipment) (Caltrans, 2013a & 2013b). Table 12 below shows Caltrans’ acceptable levels of ground-borne vibration based on the relative perception of a vibration event for vibration-sensitive land uses. For the Project to be compliant with Caltrans’ thresholds, the ground-borne vibration should not exceed the “distinctly perceptible,” or 0.24 ppv, threshold.

The American Association of State Highway and Transportation Officials (AASHTO) (AASHTO, 1990) identifies maximum vibration levels for preventing damage to structures from intermittent construction or maintenance activities for residential buildings. AASHTO has identified maximum vibration levels for modern and fragile buildings. Due to the potential for older buildings to occur along the Project alignment, the maximum vibration levels for older buildings, 0.3 ppv, was used in the analysis of vibration from the Project's construction as a conservative measure. Below this vibration level there is virtually no risk of building damage.

The nearest receptors to the Project would be the residences along the Studebaker Access Road / SR 22 off-ramp. For the Project to be compliant with AASHTO, the continuous or frequency intermittent sources should not exceed 0.3 ppv.

Table 13 shows the estimated vibration levels generated by construction equipment that may be used during construction of the Project. Vibration results are provided in greater detail within Appendix F. To calculate the ppv for a receptor distance of 15 feet, the following formula was used for the Project:

The calculation to determine PPV at a given distance is:

$$PPV_{\text{distance}} = PPV_{\text{ref}} * (25/D)^{1.5}$$

Where:

- PPV_{distance} = the peak particle velocity in inches/second of the equipment adjusted for distance,
- PPV_{ref} = the reference vibration level in inches/second at 25 feet, and
- D = the distance from the equipment to the receiver.

A loaded truck is assumed to be used for Project construction. The vibration level for a loaded truck at the closest receptor distance of 15 feet would be 0.16 ppv, which is below the AASHTO 0.3 ppv criterion for a significant impact for continuous/frequency intermittent sources. In addition, the vibration level would be below the Caltrans 0.24 ppv criterion for annoyance and below the 0.3 ppv criterion that could create structural damage for older buildings. Therefore, construction of the Project would result in less than significant impact under this criterion.

During operation, the Project would operate underground and would not generate vibration sources. Vibration from maintenance vehicular trips (e.g., work trucks) would be similar to ambient traffic noise; thus, vibration would be short term and temporary in nature. Operation and maintenance vibration levels would be a negligible increase in vibration levels to sensitive receptors. Therefore, operation of the Project would result in less than significant impact under this criterion.

Table 12. Human Response to Transient Vibration

Average Human Response	ppv (in/sec)
Severe	2.000
Strongly perceptible	0.900
Distinctly perceptible	0.240
Barely perceptible	0.035

Source: Caltrans, 2013b.

Table 13. Estimated Vibration Levels During Construction

Equipment	PPV at 25 ft (in/sec)	PPV at 50 ft (in/sec)	PPV at 75 ft (in/sec)	PPV at 100 ft (in/sec)
Large bulldozer	0.089	0.031	0.017	0.011
Loaded trucks	0.076	0.027	0.015	0.010
Jackhammer	0.035	0.012	0.007	0.004
Small bulldozer	0.003	0.001	0.001	<0.001

Source: Federal Transit Administration, 2018

- c) **No Impact.** The closest public airport to the Project site is the Long Beach Airport (4100 Donald Douglas Dr, Long Beach), located approximately 2.5 miles northwest of the Project. The Project is located approximately 2 miles southwest of JFTB, Los Alamitos (11206 Lexington Dr, Los Alamitos) and falls within the JFTB Airport Planning Area. However, the Project area is outside the noise contour impact zones of the JFTB (Orange County Airport Land Use Commission, 2017). There are no private airstrips, heliports, or helistops in the immediate vicinity of the Project site. The construction and operation of the Project would not generate aircraft noise, nor would it locate people in an area where they would be exposed to excessive aircraft noise levels. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.14 Population and Housing

The Population and Housing section considers the impact of the Project on population growth within the Project area and whether the Project would displace substantial numbers of people necessitating construction of new housing elsewhere.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING. Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No impact.** The Project would install a RW pipeline underground for use by the HGS. During construction, the Project would not demolish or construct new homes, businesses, roadways, or other aboveground infrastructure. Construction of the project would require short-term workers from the local and surrounding area; thus, construction of the Project would not directly or indirectly induce population growth in the City of Long Beach or the City of Seal Beach. Operation of the Project would not generate additional vehicular traffic beyond those required for maintenance activities. Therefore, construction and operation of the Project would result in no impact under this criterion.

- b) **No impact.** The Project would not displace any persons or housing and would not necessitate the construction of replacement housing elsewhere. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.15 Public Services

This section evaluates the impact of the Project on public services provided by the City of Long Beach, City of Seal Beach, or other agencies.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES. Would the project:				
II. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schools?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact with Mitigation Incorporated.** The Project is surrounded by commercial, industrial, low density residential, open space, and undeveloped ROW land uses. Most of the Project would be constructed underground, except for the segment of pipeline that would be attached to the north side of the College Park Drive bridge structure. During construction, a TCP may be developed and implemented to assist with traffic flow within the Project area. Lane and short-term roadway closures may be necessary and temporary detours may result in minor increases in VMT. Notification to Long Beach and Seal Beach fire, police, and schools; Caltrans; and transit authorities would be sent at least 2 working days prior to any closing, partial closing, or reopening of a street, alley, or other public thoroughfare. Public notification to residents would be sent 7 days and 48-hours prior to start of construction, and 24-hours prior to any water service disruptions. Implementation of MM TR-1, which requires the preparation and approval of a standard traffic control plan, would reduce impacts to a less than significant level. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not affect service ratios, response times, or other performance objectives for any public services. Therefore, operation of the Project would result in no impact under this criterion.

Less Than Significant Impact with Mitigation Incorporated- Fire Protection. A total of twenty-five (25) fire stations are located within the City of Long Beach. The nearest Long Beach fire station is Long Beach

Fire Dept. Station 22 (6340 Atherton Street), located approximately 0.54 miles west of the Project's northernmost point.

The Orange County Fire Authority (OCFA) is a regional fire service agency that serves Orange County, including the City of Seal Beach. The nearest Seal Beach fire station is OCFA Fire Station #48 (3131 North Gate Road), located approximately 1.05 miles east of the Project.

During construction (as part of the project's TCP), notification to Long Beach and Seal Beach fire services would be sent out prior to any closing, partial closing, or reopening of a street, alley, or other public thoroughfare. Acceptable service ratios, response times, or other performance objectives would not change during construction; however, lane and short-term roadway closures or temporary detours may result in minor increases in VMT. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan, to reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not affect vehicular traffic. Therefore, operation of the Project would result in no impact under this criterion.

Less Than Significant Impact with Mitigation Incorporated - Police Protection. The Long Beach Police Department provides law enforcement services to the City of Long Beach. The Long Beach Police – East Division, a police sub-station, provides law enforcement services for the Project area. The police sub-station (3800 E. Willow Street) is located approximately 2.91 miles northwest of the Project.

The Seal Beach Police Department provides law enforcement services to the City of Seal Beach and the Project area. The Seal Beach Police Department headquarters (911 Seal Beach Boulevard) is located approximately 1.53 miles southwest of the Project.

During construction (as part of the project's TCP), notification to Long Beach and Seal Beach police services would be sent out prior to any closing, partial closing, or reopening of a street, alley, or other public thoroughfare. Acceptable service ratios, response times, or other performance objectives would be maintained during construction; however, lane and short-term roadway closures or temporary detours may result in minor increases in VMT. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan, to reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not affect vehicular traffic. Therefore, operation of the Project would result in no impact under this criterion.

Less Than Significant Impact with Mitigation Incorporated - Public Schools. Within the City of Long Beach, public school services for the Project area are provided by the Long Beach Unified School District. Within the City of Seal Beach, public school services for the Project area are provided by the Los Alamitos Unified School District. The Project would not construct new public school facilities or add improvements to existing public school facilities; however, lane and short-term roadway closures or temporary detours required for the Project may result in minor increases in VMT. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan, to reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not otherwise affect the access or use of existing public school facilities. Therefore, operation of the Project would result in no impact under this criterion.

Less Than Significant Impact with Mitigation Incorporated - Parks. There is one park, Edison Park (99 College Park Drive, Seal Beach), located adjacent to the Project area. Construction of the Project would occur within the existing College Park Drive roadway south of the park’s entrance; however, it would not alter the existing park facility, nor would construction generate additional population within the City of Seal Beach. During construction, a TCP may be developed and implemented to assist with traffic flow within the Project area. Construction of the Project requires trenching within the roadway near the entrance of the park; thus, lane and short-term roadway closures may be necessary, or temporary detours, which would result in minor increases in VMT in the vicinity of the park. However, access to the park would be maintained throughout construction. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan, to reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, the Project would operate underground and would not otherwise affect the access or use of the park. Therefore, operation of the Project would result in no impact under this criterion.

Less Than Significant Impact with Mitigation Incorporated - Other Public Facilities. Construction and operation of the Project would not generate additional population that would impact libraries, community centers, or other community facilities in the City of Long Beach or the City of Seal Beach. No new construction of or improvements to other existing public facilities would be required to maintain acceptable performance objectives. Lane and short-term roadway closures may be necessary or temporary detours, which would result in minor increases in VMT. However, the Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan, to reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact under this criterion.

During operation, the Project would operate underground and would not otherwise affect aboveground public facilities. Therefore, operation of the Project would result in no impact under this criterion.

4.16 Recreation

The Recreation section analyzes whether the Project would trigger the need for additional recreational facilities within the community. The section also evaluates the impact on use of existing neighborhood or regional parks.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION.				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No Impact.** The Project would construct RW pipeline underground, except for the segment of pipeline that would be attached to the north side of the College Park Drive bridge structure. Construction of the Project would occur near Edison Park (99 College Park Drive, Seal Beach); however, Project activities are not of a nature that would increase the existing use of the facility.

During operation, the Project would operate underground and would not otherwise affect the access or use of the park. Therefore, construction and operation of the Project would result in no impact under this criterion.

- b) **No Impact.** The Project would construct RW pipeline underground, except for the segment of pipeline that would be attached to the north side of the College Park Drive bridge structure. The Project does not include recreation facilities or require the construction or expansion of recreational facilities. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.17 Transportation

This section evaluates whether the Project creates conflicts with the effectiveness of the existing transportation network, any congestion management plan, or creates any design flaws that would substantially increase transportation hazards.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION. Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict or be inconsistent with CEQA Guidelines §15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact with Mitigation Incorporated.** The Project, construction and operation/maintenance of an underground RW pipeline, would not permanently conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. During construction, the Project would temporarily relocate bus service that is currently available at four bus stops in Long Beach located along Studebaker Road, as follows: (1) Studebaker-Atherton, (2) Studebaker-Driscoll, (3) Studebaker-Vuelta Grande W, (4) Studebaker and Anaheim Road SW. Bus service would resume upon the completion of construction. No bus stops are currently located on College Park Drive (Long Beach and Seal Beach). During construction, street and lane closures, as well as detours, may be implemented during construction and could result in traffic delays. However, a Traffic Control Plan (TCP) would be implemented by the contractor to address temporary impacts to vehicles and pedestrians, and would allow access to emergency vehicles. The Project would

implement MM TR-1, which requires the preparation and approval of a standard traffic control plan. Implementation of MM TR-1 would reduce the impacts to a level less than significant. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion. During operation, area roadways would be returned to their pre-construction operation and traffic would not be impeded. Therefore, operation of the Project would result in no impact under this criterion.

- b) **Less Than Significant Impact.** CEQA Guidelines section 15064.3, subdivision (b) describes specific criteria for analyzing a project's transportation impacts. During construction, lane and short-term roadway closures may be necessary and temporary detours may be required, which may result in a minor and temporary increase VMT. During operation, the Project would operate underground, roadways would return to their pre-construction operational condition (i.e., VMT would return to pre-construction VMT). Therefore, construction and operation of the Project would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b). Construction of the Project would result in less than significant impact and operation would result in no impact under this criterion.
- c) **Less Than Significant Impact with Mitigation Incorporated.** The Project is installation and operation of a RW pipeline located mostly underground, except where the pipeline is installed aboveground on the College Park Drive Bridge over the San Gabriel River (i.e., attaching pipe to the existing bridge structure). The Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). During construction, street and lane closures, as well as detours, may be implemented during construction and could result in traffic delays. However, a TCP would be implemented by the contractor to address temporary impacts to vehicles and pedestrians, and would allow access to emergency vehicles. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan. During construction, traffic control measures, as part of the TCP, would be implemented in accordance with Federal Highway Administration Manual on Uniform Traffic Control Devices, California Department of Transportation, and/or local permitting requirements. The TCP may require lane closures which would temporarily reduce the travel width of roadways and may affect sight distance; and thus, would temporarily affect the geometric design features of intersections or roadways along the Project alignment. However, implementation of MM TR-1 would reduce the impacts to a level less than significant; therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, area roadways would be returned to their pre-construction operation and traffic would not be impeded. Therefore, operation of the Project would result in no impact under this criterion.

- d) **Less Than Significant Impact with Mitigation Incorporated.** Within the City of Long Beach, the South Los Angeles County disaster routes map identifies the I-405 (north of the project area) and Pacifica Coast Highway (southwest of the project area) as a primary disaster route and Bellflower Boulevard as a secondary disaster route (Los Angeles County, n.d.). The City of Seal Beach's Evacuation Plan (2018) identifies the I-405 and SR 22 as possible evacuation routes (City of Seal Beach, 2018). During construction, lane and short-term roadway closures may be necessary and temporary detours may be required. These closures could temporarily affect access to adjacent properties and could result in traffic delays. However, a TCP would be implemented by the contractor to address temporary impacts to vehicles and pedestrians, and would allow access in case of emergencies. Coordination with local emergency services in both Long Beach and Seal Beach would be conducted as part of the TCP so that adequate emergency access is maintained throughout construction. The Project would implement MM TR-1, which requires the preparation and approval of a standard traffic control plan; thus, construction of the Project would not impede or limit access to any disaster route. Implementation of MM TR-1 would reduce the impacts to a level less than significant.

Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion.

During operation, area roadways would be returned to their pre-construction operation and emergency access would not be impeded. Therefore, operation of the Project would result in no impact under this criterion.

Transportation Mitigation Measures

MM TR-1: Prepare Standard Traffic Control Plan (TCP). During the final engineering phase and at least 30 days prior to construction, a construction TCP shall be prepared by the contractor and reviewed and approved by the lead agency.

The lane/street closures in the construction TCP shall be coordinated between the construction contractor, private businesses, public transit and bus operators, emergency service providers, and residents to minimize construction-related vehicular traffic impacts. During planned closures, traffic shall be re-routed to adjacent streets via clearly marked detours and notice shall be provided in advance to applicable parties (nearby residences, emergency service providers, public transit and bus operators, businesses, and organizers of special events). The TCP shall identify proposed closure schedules and detour routes, as well as construction traffic routes, including haul truck routes, and preferred delivery/haul-out location and hours to avoid heavily congested areas during peak hours, where feasible.

4.18 Tribal Cultural Resources

This section analyzes whether the Project would impact tribal cultural resources and documents notification of Native American Tribal representatives and consultation that occurred.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code §21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code §5020.1(k), or	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code §5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code §5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

On April 6, 2023, the City of Long Beach initiated Assembly Bill (AB)-52 (2014) consultation by sending Project notification letters to the tribal representatives of the Gabrieleno Band of Mission Indians – Kizh Nation, the

Gabrielino Tongva Indians of California Tribe, the Gabrieleno/Tongva San Gabriel Band of Mission Indians, the Gabrielino/Tongva Nation, Gabrielino-Tongva Tribe, the Juaneño Band of Mission Indians Acjachemen Nation, the Juaneno Band of Mission Indians Acjachemen Nation 84A, the Santa Rosa Band of Cahuilla Indians, and the Soboba Band of Luiseno Indians. Responses from representatives of three of the contacted tribes requesting consultation with the City of Long Beach under AB-52 (2014) were received as of August 30, 2023.

The Gabrieleno Band of Mission Indians – Kizh Nation Chairperson, Andrew Salas, requested a consultation meeting on April 6, 2023. The consultation meeting was conducted on July 13, 2023. The tribal representative provided mitigation measures to the City of Long Beach on August 2, 2023. See Tribal Cultural Resources Mitigation Measures.

Per request, a virtual meeting was conducted with the Gabrielino Tongva Indians of California Tribe (GTIOC) Tribal Consultation and Administrator, Christina Conley, on April 13, 2023, during which Ms. Conley stated that the mitigation measures included in the AB 52 consultation letter were adequate. Ms. Conley provided mitigation measures to the City of Long Beach and transmitted a copy of the GTIOC’s Tribal Cultural Resources Treatment Plan on April 14, 2023, and specified that if there is more than one interested Tribe for the project, a monitoring rotation may be implemented so that all interested tribes have equity in representation. The GTIOC treatment plan includes provisions for “a qualified and certified indigenous tribal member of the Gabrielino Tongva Indians of California and direct lineal descendant of the project site (NAGPRA section 10.14) to provide the professional Native American Monitoring required for only the ground disturbing activity on the site”. The GTIOC treatment plan also states that if a culturally sensitive area is identified during consultation, archaeological survey must be completed before any movement of soil takes place; however, due to surface development throughout the project area, pedestrian survey would not assist in identifying potential sensitive areas, and as such, survey would not be required prior to the commencement of ground disturbance. See Tribal Cultural Resources Mitigation Measures.

The City of Long Beach met with Charles Alvarez, representative for the Gabrielino-Tongva Tribe, on April 13, 2023. During this meeting, Mr. Alvarez stated that the mitigation measures included in the AB 52 consultation letter were adequate. Mr. Alvarez also provided a copy of the GTIOC treatment plan to the City of Long Beach in a closing consultation letter/e-mail.

The Juaneno Band of Mission Indians Acjachemen Nation – Belardes President, Joyce Perry, communicated via electronic correspondence on April 28, 2023, and requested to be included in continuing AB 52 consultation on the Project. Ms. Perry also asked that a copy of the CHRIS records search results be sent and requested that a mitigation measure requiring the presence of a Native American monitor representing the Juaneno Band of Mission Indians – Acjachemen Nation – Belardes during ground disturbing activities be adopted due to the sensitivity of the Project area to the Juaneno Band of Mission Indians. Ms. Perry did not request a consultation meeting but did reiterate the Project area’s sensitivity and the previous request that a mitigation measure requiring the presence of a Native American (Juaneno) monitor during ground disturbing activities be adopted via subsequent electronic correspondence on May 30, 2023. See Tribal Cultural Resources Mitigation Measures.

The Santa Rosa Band of Cahuilla Indians Tribal Chair, Lovina Redner, did not respond; therefore, consultation was not undertaken.

Consultation with interested tribes has determined that the Project area is considered sensitive for tribal cultural resources. Thus, tribal cultural resources mitigation measures, in accordance with the tribes’ request and as outlined in the GTIOC Tribal Cultural Resources Treatment Plan (GTIOC 2023), will be implemented as part of the Project.

Tribal Cultural Resources Mitigation Measures

Mitigation measure TCR-1, MM TCR-2, and MM TCR-3 were provided by the Gabrieleño Band of Mission Indians – Kizh Nation and apply to the monitoring and treatment by this tribe:

MM TCR-1: Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities.

The project applicant/lead agency shall retain a Native American Monitor from or approved by the

Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any “ground-disturbing activity” for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). “Ground-disturbing activity” shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.

A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.

The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or “TCR”), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.

On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.

MM TCR-2: Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial).

Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe’s sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.

MM TCR-3: Unanticipated Discovery of Human Remains and Associated Funerary or Ceremonial Objects.

Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.

If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resource Code 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed.

Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).

Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods.

Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

Mitigation measure TCR-4, MM TCR-5, and MM TCR-6 were provided by the Gabrielino Tongva Indians of California (GTIOC) and apply to the monitoring and treatment by this tribe:

MM TCR-4: Retain a Native American Monitor. A qualified and certified indigenous tribal member of Gabrielino Tongva Indians of California (GTIOC) and direct lineal descendant of the project site (NAGPRA section 10.14) to provide the professional Native American Monitoring required for only the ground disturbing activity on the site. Ground disturbances including but not limited to the removal of asphalt/cement/slurry, trenching, boring, excavation, auguring, grubbing, tree removal, grading and drilling will be monitored. The Tribal Monitor will only be required on site when these ground disturbing activities occur.

The GTIOC monitor will be responsible for observing all mechanical and hand labor excavations to include paddle scrapers, blade machines, front-end loaders, back hoe, boring and drill operations as well as hydraulic and electric chisels. Associated work using tools such as picks and other non-electric or gasoline tools that are not regarded as mechanical will be monitored for their soil disturbances.

Soils that are removed from the work site are considered culturally sensitive and are subject to inspection. These soils whether placed in a dump truck or spots piles are to be inspected. The monitor will temporarily hold excavations until a determination is made on the sensitivity of the of the soil. If the soils are sensitive, an archeological monitor will verify the find and notify site supervisor.

If any archaeological or paleontological, or cultural deposits, are discovered, including but not limited grave related artifacts, artifacts of traditional cultural, religious, or spiritual sites, or any other artifacts relating to the use or habitation sites, all construction shall cease within at least 50 feet of the discovery and held until the proper authorities are contacted.

The GTIOC monitor may make recommendations during the course of the project when a cultural area has been impacted. The GTIOC monitor will be authorized to halt or redirect excavation activities to another area as an assessment is made. Both archeological and GTIOC will work together to insure that the area is warranted as being culturally sensitive before a determination is made. Avoidance and directing an alternative route from this culturally sensitive area is highly recommended.

Any artifacts associated within the site that are not associated with any burials are subject to collection by the designated archaeologist for purposes of data and information vital for their final report. The GTIOC monitor does not collect artifacts for any reason. Unauthorized removal of artifacts will jeopardize sites orientation and successful data recovery. Only a qualified archeologist will remove artifacts for their reports. The land owner will work with the GTIOC monitor to ensure that a proper repository is established. A final report will be issued to the cultural consultant by the archeological company.

It is the sole responsibility of the GTIOC monitor to provide the client with a written daily field report that includes photos of his/her accounting of the soil disturbances of the daily activities. This perspective of the daily activities by the GTIOC monitor will enhance the information gathered by the field archeologist. The daily report will include observations the GTIOC visually observed the project site at the beginning of each work day (i.e. weather conditions, overnight disturbances). Written daily monitoring reports will include daily observations on surface soil as well as disturbed soil. Photographic documentation is included in the daily reports. When project is completed, GTIOC will certify that work performed was done so within compliance of AB52 and SB18 within 5 days of completion of the Native American monitoring aspect of the project.

MM TCR-5: Procedures for the treatment and disposition of human remains and associated grave goods at Gabrielino Tongva ancestral sites. Treatment plan for human remain discovery. The immediate cessation of work in the immediate vicinity will be implemented. The county coroner will be immediately contacted. California Health and Safety Code Sec. 7050.5 (a) Every person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated

cemetery without authority of law is guilty of a misdemeanor, except as provided in Section 5097.99 of the Public Resources Code.

The county coroner and law enforcement, will evaluate and make a determination and a formal review of the find. The county coroner has the legal responsibility for determining whether or not the remains are native indigenous people.

If it is established that the remains are of native indigenous people, the coroner has 24 hours to contact the Native American Heritage Commission (NAHC).

A Most Likely Descendent (MLD) will be assigned by the NAHC to ensure the ancestor(s) will be treated with dignity and respect and shall complete their inspection and make recommendations or preferences for treatment within 48 hours (California Public Resources Code Sec. 5097.98).

****The MLD may not be a Native American Monitor assigned to monitor the site where human remains were unearthed. GTIOC deems that to be a conflict of interest.****

A certified osteologist will be retained to verify the human remains authenticity and work to help remove the ancestor(s) from the site area with the discretion and advise from the MLD. The GTIOC monitor(s) assigned to the project will assist the osteologist and archeological monitors in the recovery process. The MLD will determine where the ancestors will be housed pending a final decision for the reinterment of the ancestor(s).

Confidentiality. Any and all information provided about the location of an archeological or sacred site by our GTIOC cultural consultant will not be disclosed reproduced both digitally or on paper. Furthermore, the location must not be published for public viewing which includes any reports either preliminary or final and must be kept confidential to maintain the integrity and compliance of the archeological or sacred site.

MM TCR-6: Recovery and Reburial Procedures. The Gabrielino Tongva Indians of California (GTIOC) has a goal to ensure your project falls under the compliancy guidelines that have been established by Assembly Bill 52. GTIOC is recognized by the Native American Heritage Commission and is fully qualified for the intricacies of Recovery and Reburial. In addition, we want to preserve our family's human remains and associated grave goods at ancestral sites while engaging in a meaningful and productive relationship with your team. We appreciate the opportunity to work with you in accomplishing the aforementioned.

Specific methods of recovery and reburial procedures have been developed and adopted by the Gabrielino Tongva Indians of California and are required to adhere to when recovering Gabrielino Tongva remains. Conditions may arise where altering some of these guidelines will be considered. Consultation with the Most Likely Descendant (MLD) and the GTIOC monitor(s) assigned to the site should then be scheduled to determine other procedures that may be acceptable to the Gabrielino Tongva Indians of California Nation.

Excavation:

1. Consultation between the MLD and the archeological firm must take place before the recovery of the remains and during the process of extraction.
2. A 50 foot perimeter for each uncovered burial will be required to safeguard further destruction until the area is examined for additional remains and associated grave goods.
3. In the event blade machines are operating in an adjacent area, a maximum of 2" cuts or less will be permitted in all cultural areas.
4. If more than one area is being excavated for extraction of remains simultaneously, an additional GTIOC must be required. Each excavated burial will be monitored exclusively.

5. Wooden tools are preferred for process of recovery; electric chisels and other power tools should be avoided.
6. If remains are pedestaled, they will be placed on plywood for removal. If remains cannot be pedestaled due to soil conditions, remains just be carefully placed in cloth bags.
7. Soils adjacent to burials will be saved for reburial in plastic containers.
8. No photography (both film and digital) or video is allowed to be taken of the remains or the site. Drawings of remains are permitted to retain the orientation of the ancestors for reinterment purposes only. Coroner photographs of the remains may not be published for any purpose.

Testing:

1. DNA testing cannot be undertaken.
2. No invasive testing which would compromise the integrity of the remains is permitted.
3. Macroscopic analysis is permitted.
4. Any associated grave goods (such as shell) may be used for dating purposes of each burial.
5. When remains are unearthed, the 1'X 1' test pits will be allowed to establish the extent of the burial area when necessary.
6. All windrows within a 50 foot area must be screened (either wet or dry).

Storage:

1. Natural cotton bags and sheeting or cotton drop cloths will be used to store remains until the time of reinterment. Deer or other native hides may be used to cover the bagged and wrapped remains until the reburial and may become the burial wrapping.
2. Bone fragments are also subject to be bagged in cotton.
3. Until the scope of the project is completed, storage of ancestors should be done in close proximity to location of excavation or protected area must be provided by landowner or archeologist.

Reburial:

1. Efforts should be made to keep the remains within the same location or in close proximity to the removal site as possible. It is preferable to repatriate the remains within a 1/2 mile radius of the original grave site. If it is not possible to identify a proper location within the 1/2 mile radius, a secure location will be valued over distance.
2. If the preponderance of remains is uncovered in or excavated from one area, the reinterment should be in that area.
3. The reburial site should offer the best long-term protection against any additional disturbances.
4. Each reburial requires approximately 4' X 5 1/2' when fully articulated and should be at a depth of 6-10 feet. The purpose of this depth is to ensure difficulty in disturbing the reburial and to allow adequate room for capping if necessary.
5. Any isolated bone fragments uncovered on site may be buried together in an individual burial pit with indigenous animal skins, sea weed, or the cotton cloth used for all bagged fragments.
6. All associated grave goods and artifacts along with soils will be buried together with the ancestors.

7. No drawings of any other images of ancestral remains may be used for publication without consultation and the approval of the GTIOC monitors and appointed MLD for the site.

Costs:

1. The landowner(s) will be responsible for all costs related to the proper storage and reburial of remains excavated on their property to include all burial materials as required in these procedure guidelines.
2. Landowner(s) will be financially responsible for providing reburial plots that are acceptable by the MLD.

Mitigation measure TCR-7 was agreed to by the Juaneno Band of Mission Indians Acjachemen Nation – Belardes and apply to the monitoring and treatment by this tribe:

MM TCR-7: Native American Monitoring. A Native American monitor from the tribe or tribes identified as a consulting party for the project under AB 52 shall be present during all earth-moving construction activities. The Native American monitor shall be given the opportunity to participate in the cultural resources sensitivity training described in the CUL-1 mitigation measure. At least 30 days prior to issuance of grading permits by the City of Long Beach for each of the individual sites and any off-site improvements, a Native American Monitoring Agreement (Monitoring Agreement) shall be developed between the City and responsible agency, as applicable, and the consulting party. The Monitoring Agreement shall pertain to prehistoric archaeological resources and Tribal cultural resources, respectively, and shall identify any monitoring requirements and treatment of cultural resources to meet both the requirements of CEQA and those of the Tribal representative. The Monitoring Agreement shall also address communication protocols in the event of an unanticipated discovery of cultural materials, and the roles, responsibilities, and authorities of the Native American Monitor. The Monitoring Agreement shall also detail the protocols for treatment and final disposition of any Native American cultural resources, sacred sites, and human remains discovered on the site that the Native American Monitor shall implement in consultation and coordination with the Native American Most Likely Descendant, as identified by the NAHC. In accordance with the mitigation measure below, discovery and treatment of human remains shall comply with State Health and Safety Code Section 7050.5 and PRC Section 5097.98.

- a) **Less Than Significant with Mitigation Incorporated.** Although the area is considered to the interested tribes as sensitive, tribal consultation did not result in the identification of any known tribal cultural resources, listed or unlisted, within the Project area; furthermore, AZTEC's background research did not identify any previously documented historical properties or archaeological resources within the Project area. During construction, ground disturbance would be limited to the extent of previous development within the paved roadway and would not impact existing residential structures or properties along the proposed alignment; additionally, per MM TCR-1 , MM TCR-4, and MM TCR-7 (above), a Native American monitor would be required for all ground disturbing activities, per tribal request, and per MM TCR-3, MM TCR-5, and MM TCR-7 inadvertent discoveries would be assessed and documented. Implementation of MM TCR-1 through MM TCR-7 during construction would reduce the potential impacts to previously undocumented tribal cultural resources that may be present within the Project area. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion. During operation, the pipeline would operate underground and normal operations would not generate ground disturbance nor would operations affect the visual environment in such a way that would detract from a property's California or National Register eligibility. Therefore, operation of the Project would result in no impact under this criterion.
- b) **Less Than Significant with Mitigation Incorporated.** No significant resources were identified within the Project area by interested tribes, and none were identified during AZTEC's background research. During construction, ground disturbance would be limited to the extent of previous development within the paved

roadway and would not impact any known resources, as none are present along the proposed alignment. Mitigation Measures TCR-1 through MM TCR-7 would be employed if any archaeological, paleontological, or cultural deposits are discovered (including but not limited to grave related artifacts, artifacts of traditional cultural, religious, or spiritual nature, or any other artifacts relating to use or habitation). Implementation of MM TCR-1 through MM TCR-7 during construction would reduce the potential impacts to previously undocumented tribal cultural resources that may be present within the Project area. Therefore, construction of the Project would result in less than significant impact with mitigation incorporated under this criterion. During operation, the pipeline would operate underground and normal operations would not generate ground disturbance nor would operations affect the visual environment in such a way that would detract from a property’s historic significance. Therefore, operation of the Project would result in no impact under this criterion.

4.19 Utilities and Service Systems

The Utilities and Service Systems section evaluates the Project’s impacts on utilities and provision of municipal waste management services. Specifically, the section analyzes whether the Project would trigger the need for additional facilities or whether capacity exists to support the Project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a determination by the wastewater treatment provider which, serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Impacts Analysis

- a) **No Impact.** The Project is the installation of a RW pipeline and does not require or result in the relocation of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which would cause significant environmental effects. Therefore, construction and operation of the Project would result in no impact under this criterion.

- b) **No Impact.** The Project is the installation of a pipeline to transmit recycled water to the Haynes Generating Station. A minor amount of water may be used by the Project during construction (e.g., dust control) and/or for compaction of the backfill which would be supplied from existing, sufficient local supplies. The Project does not require an external source of water to operate. Sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years. Therefore, construction and operations of the Project would result in no impact under this criterion.
- c) **No Impact.** The Project would not generate wastewater during construction or operation and would generate no demand on wastewater treatment providers. Implementation of the Project would not result in a determination by the wastewater treatment provider that serves or may serve the proposed Project that it has inadequate capacity to serve the proposed Project's projected demand in addition to the provider's existing commitments. This analysis of the treatment plant capacities were performed as a part of LBUD's master planning efforts and there is adequate capacity. Therefore, construction and operation of the Project would result in no impact under this criterion.
- d) **No Impact.** During construction, the Project would generate solid waste from demolition of portions of existing roadway and medians, primarily asphalt and concrete. Disposal of construction-related solid waste would follow existing local, state, and federal regulations and requirements. The Project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. No waste would be generated during operation of the Project. Therefore, construction and operation of the Project would result in no impact under this criterion.
- e) **No Impact.** The proposed Project would comply with federal, state, and local management and reduction statutes and regulations related to solid waste. Therefore, during construction and operation, the Project would result in no impact under this criterion.

4.20 Wildfire

The Wildfire section evaluates the impact of the Project on wildfire risk and effects of wildfire on the Project area.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?
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Impacts Analysis

- a) **No Impact.** A review of the Los Angeles County Fire Hazard Severity Zone map (State of California, 2022a) and the Orange County Fire Hazard Severity Zones map (State of California, 2022b) indicates that the Project is not located in or near a state responsibility area or land classified as very high hazard severity zone. The Project would not substantially impair an adopted emergency response plan or emergency evacuation plan. Therefore, construction and operation of the Project would result in no impact under this criterion.
- b) **No Impact.** A review of the Los Angeles County Fire Hazard Severity Zones map (State of California, 2022a) and the Orange County Fire Hazard Severity Zones map (State of California, 2022b) indicates that the Project is not located in or near a federal or state responsibility area or land classified as very high hazard severity zone. The Project would not, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Therefore, construction and operation of the Project would result in no impact under this criterion.
- c) **No Impact.** A review of the Los Angeles County Fire Hazard Severity Zones map (State of California, 2022a) and the Orange County Fire Hazard Severity Zones map (State of California, 2022b) indicates that the Project is not located in or near a federal or state responsibility area or land classified as very high hazard severity zone. The Project would not require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment. Therefore, construction and operation of the Project would result in no impact under this criterion.
- d) **No Impact.** A review of the Los Angeles County Fire Hazard Severity Zones map (State of California, 2022a) and the Orange County Fire Hazard Severity Zones map (State of California, 2022b) indicates that the Project is not located in or near a federal or state responsibility area or land classified as very high hazard severity zone. The Project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. Therefore, construction and operation of the Project would result in no impact under this criterion.

4.21 Mandatory Findings of Significance

This section includes questions designed to establish whether the Project has effects significant enough to impact the environment negatively. It also addresses the issues of short-term versus long-term environmental goals and cumulative impacts of past, other current, and reasonably foreseeable projects.

Issues	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE.				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Impacts Analysis

- a) **Less Than Significant Impact with Mitigation Incorporated.** Based on the foregoing analysis and commitments, the Project would not have the potential to reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of a rare or endangered plant or animal. As discussed in Section IV, Project construction activities occurring during the nesting bird season could indirectly impact birds protected under the Migratory Bird Treaty Act; and ground disturbing Project activities could impact burrowing owls. However, implementation of MM BIO-1 through MM BIO-3 would reduce potential impact to nesting migratory birds and burrowing owls to less than significant.

No cultural resources have been recorded within or directly adjacent to the Project area and the larger Project vicinity has been subjected to survey, testing/excavation, and limited construction monitoring. However, there is a possibility that previously undocumented archaeological or cultural resources, as well as human remains may be encountered during construction. Implementation of MM CUL-1, MM CUL-2, MM CUL-3, as well as MM TCR-1 through MM TCR-7, would reduce potential impacts to unknown archaeological and cultural resources qualifying as historical resources to less than significant. Thus, the Project would not have the potential to eliminate important examples of major periods of California history or prehistory. Therefore, construction and operation of the Project would result in less than significant impact with mitigation incorporated under this criterion.

- b) **Less Than Significant Impact.** The combined effects of two or more projects that are closely related geographically (within the same vicinity or greater region) and in time (recently completed projects, projects currently under construction, and/or projects anticipated to be constructed in the near-term future) could result in a significant environmental impact. When a project would result in no impact related to an environmental factor, there would be no potential for the project to contribute to a significant effect created by the combined impacts of closely related projects.

The analysis in this IS/MND determined that the Project would result in no impacts to agriculture and forestry resources, land use and planning, mineral resources, population and housing, recreation, utilities and service systems, and wildfire thresholds. Thus, no cumulatively considerable impacts are anticipated with these resources.

The analysis in this IS/MND also determined that less than significant impacts would occur related to aesthetics, energy, greenhouse gas emissions, and hydrology and water quality. Based on the analysis in this IS/MND, the above resources would have short-term and less than significant impacts during construction but would not make a cumulatively considerable contribution to a more widespread impact in conjunction with existing and past uses in the rea or future projects.

Impacts related to air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, public services, transportation and tribal cultural resources were determined to be potentially significant and would require mitigation to reduce impacts to a less than significant level. These potentially significant impacts would occur during construction and would cease once construction of the Project is complete. Therefore, potentially significant impacts from construction activities would be temporary in nature and within a previously disturbed and developed area (the ROW of existing roadways); and thus, would not contribute to long-term cumulative impacts in the region.

The Project is consistent with the Cities of Long Beach and Seal Beach transportation strategies and would comply with the goals and policies of the respective City's General Plan, the City's Municipal Code, as well as State and Federal laws and regulations. Overall, through implementation of the Project mitigation measures, the Project's design, as well as the City's goals and policies, the Project would not add appreciably to impacts of any cumulative projects that could result in a significant cumulative impact. Therefore, construction and operation of the Project would result in less than impact under this criterion.

- c) **Less Than Significant Impact.** As discussed within the IS/MND, the Project would not have any substantial adverse effects on the environment, including human beings, either directly or indirectly. The Project would have no impact or less than significant impacts, some with the implementation of mitigation measures. For resources where mitigation measures have been prescribed, any significant impacts would be reduced to a level less than significant. Furthermore, construction-related impacts would be short-term and temporary in nature. Overall, no adverse significant environmental impacts would result from the Project activities. Thus, construction and operation of the Project would result in less than significant impact under this criterion.

5 REFERENCES

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Note: N.D. = No Date

APPENDICES

APPENDIX A

Air Quality and GHG Technical Memorandum

LADWP Haynes Generating Station Recycled Water Pipeline Project

December 22, 2023

**Long Beach Utilities Department/
Los Angeles Department of Water and Power
Haynes Generating Station Recycled Water
Pipeline Project**

**Air Quality and Greenhouse Gas
Technical Memorandum**

December 22, 2023

Lead Agency:

Long Beach Utilities Department
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APPENDICES

Appendix A: CalEEMod Results

ACRONYMS AND DEFINITIONS

AAM	Annual Arithmetic Mean
AB	Assembly Bill
AQ	Air Quality
AQMP	Air Quality Management Plan
AZTEC	AZTEC Engineering Group, Inc.
CA	California
CAA	Clean Air Act
CAAP	Climate Change Action and Adaptation Plan
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CH ₄	methane
CML&EC	cement mortar-lined and epoxy-coated
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
DR	dimension ratio
EO	Executive Order
ft	feet
GHG	greenhouse gas
HDPE	high-density polyethylene
HFC	hydrofluorocarbons
HGS	Haynes Generating Station
I-405	Interstate 405
in	inch
IPCC	Intergovernmental Panel on Climate Change
LADWP	Los Angeles Department of Water and Power
LBUD	Long Beach Utilities Department
LCFS	low carbon fuel standard
LST	localized significance threshold
MT	metric ton
NAAQS	National Ambient Air Quality Standards
N ₂ O	nitrous oxide
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
O ₃	ozone
PFC	perfluorinated chemical
PM ₁₀	coarse particulate matter; particles of 10 micrometers and smaller
PM _{2.5}	fine particulate matter; particles of 2.5 micrometers and smaller

ppm	parts per million
ROG	reactive organic gases
ROW	right-of-way
RPS	renewable portfolio standard
RW	recycled water
SB	Senate Bill
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SF ₆	sulfur hexafluoride
SIP	State Implementation Plan
SLCP	short-lived climate pollutant
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SR 22	State Route 22
VOC	volatile organic compounds
WSP	welded steel pipe
U.S. EPA	United State Environmental Protection Agency
mg/m ³	milligrams per cubic meter
µg/m ³	micrograms per cubic meter

INTRODUCTION

This Air Quality and Greenhouse Gas (GHG) Technical Memorandum has been prepared to analyze the regional and localized air quality impacts from construction and operation of the proposed Long Beach Utilities Department (LBUD)/Los Angeles Department of Water and Power (LADWP) Haynes Generating Station (HGS) Recycled Water (RW) Pipeline Project (hereafter referred to as “Project”).

In this analysis, the following information is provided for the Project: project description; physical setting of the project study area; the regulatory framework for air quality and climate change; monitoring data on existing air quality and evaluation of potential air quality impacts associated with Project construction and operation; and recommended mitigation measures to reduce air quality impacts to the extent feasible.

PROJECT LOCATION AND DESCRIPTION

2.1 Project Location

The Project is located southwest of Interstate 405 (I-405) and north of State Route 22 (SR 22) in the southeastern portion of Long Beach, Los Angeles County and the western portion of Seal Beach, Orange County (Figure 1). The Project site encompasses the following roadways: Atherton Street, Studebaker Frontage Road, Studebaker Road, Studebaker Access Road / SR 22 off-ramp, College Park Drive, and SR 22 (Figure 2).

2.2 Project Description

The Project would be constructed within previously disturbed areas supporting numerous existing structures and subsurface utilities, City and State roadways, and associated surface improvements (i.e., paving, landscaping, and above-ground utilities).

The purpose of the Project is to install an RW main to serve LADWP’s Haynes Generating Station located in the City of Long Beach, California. The Project would provide recycled water to the Haynes Generating Station to meet the needs of the future cooling process and to maximize the use of RW supply.

The Project would include construction of a contiguous RW pipeline composed of six segments of 12- to 24-inch (in) high-density polyethylene (HDPE) as described below and as depicted in Figure 3 (Carollo, 2022):

- Construction – new RW pipelines

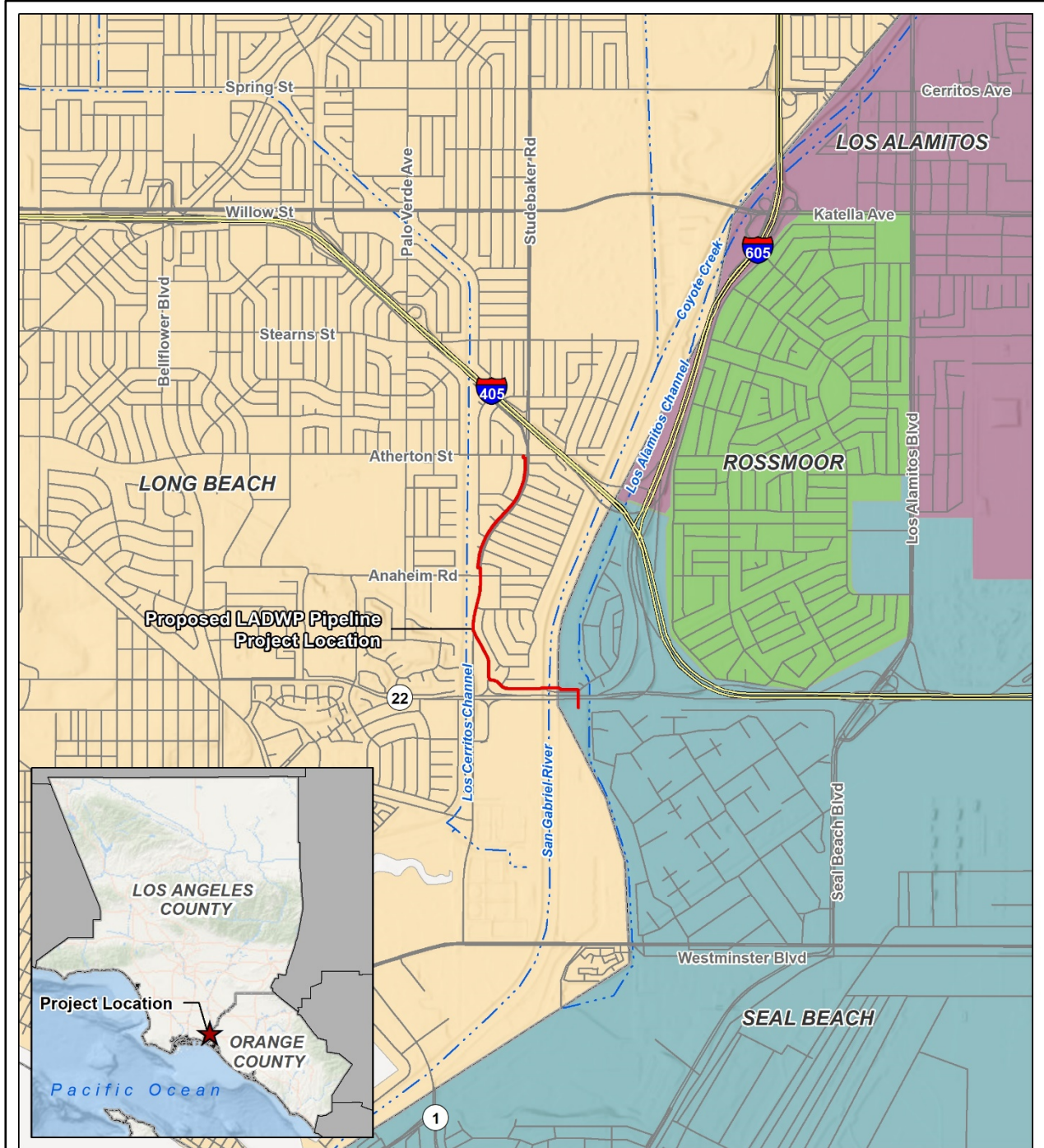
A total of six new RW pipeline segments would be constructed within existing roadway right-of-way as follows:

- Within the City of Long Beach, a total of 1.30 miles of RW pipeline would be installed:
 - Segment RW 1-11. This segment would start at the connection with the existing LBUD RW supply pipeline located just immediately west of the intersection of Atherton Street and Studebaker Road. This segment would be constructed south from the intersection within the Studebaker Frontage Road until the road ends in a cul-de-sac (near E Anaheim Road) within the City of Long Beach.
 - Approximately 22 linear feet (ft) of 12-in HDPE Class dimension ratio (DR) 17 pipe, beginning at an existing LBUD 21-in diameter RW pipe within Atherton Street, and terminating within the sidewalk on the southwest corner of Atherton Street and Studebaker Frontage Road within the road’s right-of-way.
 - Approximately 2,712 linear ft of 24-in HDPE Class DR 17 pipe, beginning at the sidewalk of Atherton Street and Studebaker Frontage Road within the road’s right-of-way, and continuing south along the Studebaker Frontage Road to approximately E Anaheim Road.
 - Segment RW 1-10. This segment would begin at the end of Segment RW 1-11, where Studebaker Frontage Road ends in a cul-de-sac (near E Anaheim Road), and would be constructed within the road’s

right-of-way, then would continue within Studebaker Road to the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp within the City of Long Beach.

- Approximately 1,440 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
- Segment RW 1-12. This segment would begin at the end of Segment RW 1-10, near the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp and would be constructed within the existing Studebaker Access Road / SR 22 off-ramp ROW to near the intersection of Salida Avenue and College Park Drive within the City of Long Beach.
 - Approximately 1,356 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
- Segment RW 1-13. This segment would begin at the end of segment RW 1-12, near the intersection of Salida Avenue and College Park Drive, and would be constructed within College Park Drive to the west side of the College Park Drive bridge within the City of Long Beach.
 - Approximately 980 linear ft of 16-in HDPE Class DR 17 pipe would be constructed.
- Within the City of Long Beach and the City of Seal Beach:
 - Segment RW 1-14. This segment would begin at the end of segment RW 1-13, on the west side of the College Park Drive bridge, and would be attached to the north side of the College Park Drive bridge structure adjacent to existing water utilities within the City of Long Beach and the City of Seal Beach.
 - Approximately 337 linear ft of 16-in cement mortar-lined and epoxy-coated (CML&EC) welded steel pipe (WSP) would be attached to the bridge.
- Within the City of Seal Beach, a total of 0.15 miles of RW pipeline would be installed:
 - Segment RW 1-15. This segment would begin at the end of segment RW 1-14, on the east side of the College Park Drive bridge, and would be constructed within an existing paved access road and within College Park Drive, then continue south underneath SR 22 and SR 22 right-of-way to the tie-in on the HGS property within the City of Seal Beach.
 - Approximately 806 linear ft of 16-in HDPE Class DR 17 pipe would be constructed. Of the 806 linear ft, 249 linear ft of pipe would be placed within a 36-in micro-tunnel steel casing. The steel casing would be installed within a new tunnel (36-in diameter and 249 ft long) underneath SR 22. The steel casing would be installed at a depth of approximately 22-32 ft below existing ground (due to the variation in SR 22 elevation) and would require a pit to be dug on either side of SR 22. The receiving pit, dug on the north side of SR 22, would be 20 ft by 36 ft and dug at a depth of 22 ft below existing ground. The launch pit/jacking pit, dug on the south side of SR 22, would be 40 ft by 36 ft and dug at a depth of 21 ft below existing ground.

Figure 1 – Regional Location Map



Sources: CALTRANS NHS (2022); CALTRANS Tiger Lines (2019); ESRI World Hillshade (2021).
 Alignment Source: Carollo, Preliminary Design Report: Updated Figure 2 (2022).

	Interstate	Watercourse	City of Long Beach	 Miles 0 0.25 0.5
	Local Roads	Project Alignment	City of Seal Beach	
	County Boundary		City of Los Alamitos	
			Rossmoor	

Map Disclaimer: This map is intended for general siting purposes only.

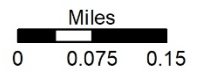
Figure 2 – Project Location Map



Sources: CALTRANS NHS (2013); CALTRANS Tiger Lines (2019); ESRI World Imagery (2021).
 Alignment Source: Carollo, Preliminary Design Report: Updated Figure 2 (2022).

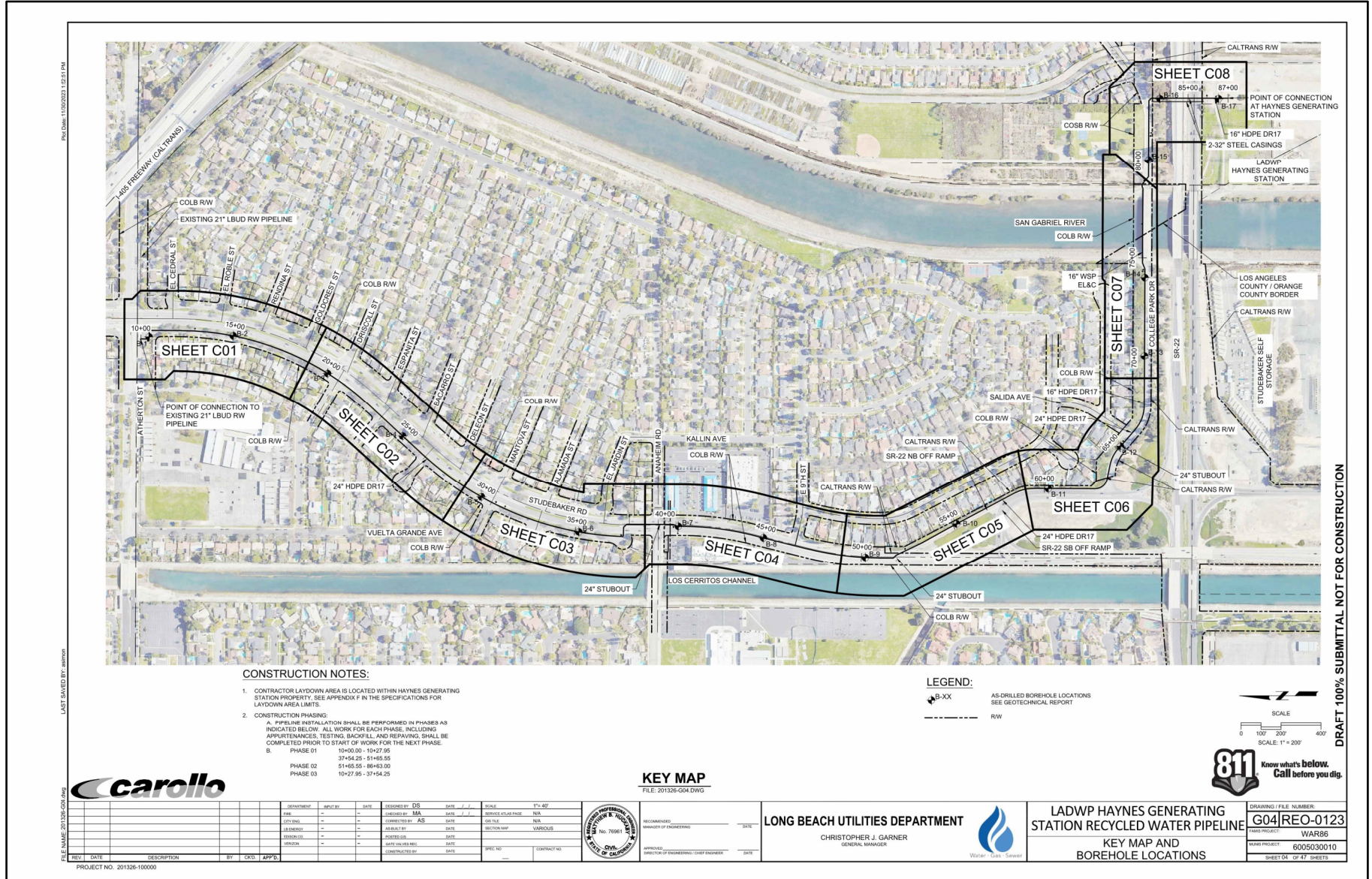


- Mileposts
- State Highway
- Interstate
- Project Alignment



Map Disclaimer: This map is intended for general siting purposes only.

Figure 3 – Proposed Pipeline Alignment – Index Sheet



Source: Draft 100% Design Plans (Carollo, 2022)

REGULATORY SETTING

3.1 Federal and California Clean Air Act

The Clean Air Act (CAA) is the primary federal law that governs air quality. These laws, and related regulations by the United States Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB), set standards for the concentration of pollutants in the air. At the federal level, these standards are named National Ambient Air Quality Standards (NAAQS). NAAQS standards have been established for six transportation-related criteria pollutants that have been linked to potential health concerns: carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), particulate matter, and sulfur dioxide (SO₂). Particulate matter is broken down into coarse particulate matter (PM₁₀) and fine particulate matter (PM_{2.5}) for regulatory purposes. In addition, national standards exist for lead. The NAAQS standards are set at levels that protect public health, with a margin of safety, and are subject to periodic review and revision. Toxic air contaminants are covered as well.

The CAA requires the U.S. EPA to designate areas as attainment, nonattainment, or maintenance (previously nonattainment and currently attainment) for each criteria pollutant based on whether the NAAQS have been achieved. The federal standards are summarized in Table 1. The U.S. EPA has classified the South Coast Air Basin (SCAB) South Coast Air Basin (SCAB) as attainment/maintenance for CO, PM₁₀, and NO₂ and nonattainment for O₃ and PM_{2.5}. In addition, the Los Angeles County portion of the SCAB is in nonattainment for lead.

In California, the CAA is administered by the CARB at the state level and by the air quality management districts and air pollution control districts at the regional and local levels. The CARB became part of the California Environmental Protection Agency in 1991, is responsible for meeting the state requirements of the federal CAA, administering the California CAA, and establishing the California Ambient Air Quality Standards. The California CAA, as amended in 1992, requires all air districts in the state to endeavor to achieve and maintain California Ambient Air Quality Standards. California Ambient Air Quality Standards are generally more stringent than the corresponding federal standards and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles.

CARB also regulates mobile air pollution sources, such as motor vehicles. CARB is responsible for setting emission standards for vehicles sold in California and other emission sources, such as consumer products and certain off-road equipment. CARB established passenger vehicle fuel specifications, which became effective in March 1996.

CARB oversees the functions of local air pollution control districts and air quality management districts, which, in turn, administer air quality activities at the regional and county levels. The state standards are also summarized in Table 1. The California CAA requires CARB to designate areas within California as either attainment or nonattainment for each criteria pollutant based on whether the California Ambient Air Quality Standards have been achieved. Under the California CAA, areas are designated as nonattainment for a pollutant if air quality data shows that a state standard for the pollutant was violated at least once during the previous 3 calendar years. Exceedances that are affected by highly irregular or infrequent events are not considered violations of a state standard and are not used as a basis for designating areas as nonattainment (CARB, 2016).

Table 1. California and National Ambient Air Quality Standards

Pollutant	Averaging Time	State Standards ^{a,c}	Federal Standards ^b	
			Primary ^{c,d}	Secondary ^{c,e}
O ₃	1 Hour	0.09 ppm (180 µg/m ³)	–	–
	8 Hour	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³)	Same as Primary
PM ₁₀ ^h	24 Hour	50 µg/m ³	150 µg/m ³	Same as Primary
	AAM ^f	20 µg/m ³	–	Same as Primary
PM _{2.5}	24 Hour	–	35 µg/m ³	Same as Primary
	AAM ^f	12 µg/m ³	12.0 µg/m ³	Same as Primary
CO	1 Hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	–
	8 Hour	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)	–	–
NO ₂	AAM ^f	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	Same as Primary
	1 Hour	0.18 ppm (339 µg/m ³)	0.100 ppm ^g	–
SO ₂	24 Hour	0.04 ppm (105 µg/m ³)	–	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m ³)
	1 Hour ^j	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	–
Lead ^h	30 day Avg.	1.5 µg/m ³	–	–
	Calendar Quarter	–	1.5 µg/m ³	Same as Primary
	Rolling 3-month average ⁱ	–	0.15 µg/m ³	
Visibility Reducing Particles	8 hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	No Federal Standards	
Sulfates	24 Hour	25 µg/m ³		

Pollutant	Averaging Time	State Standards ^{a,c}	Federal Standards ^b	
			Primary ^{c,d}	Secondary ^{c,e}
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)		
Vinyl Chloride ^h	24 Hour	0.01 ppm (26 µg/m ³)		

O₃ ozone; µg/m³ – micrograms per cubic meter; ppm – parts per million; PM₁₀: large particulate matter; PM_{2.5}: fine particulate matter; CO: carbon monoxide; NO₂: nitrogen dioxide; SO₂: sulfur dioxide.

^a California standards for O₃, CO (except Lake Tahoe), SO₂ (1 and 24 hour), NO₂, PM₁₀, PM_{2.5}, and visibility reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded.

^b National standards (other than O₃, PM₁₀, PM_{2.5}, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The O₃ standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For PM_{2.5}, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact U.S. EPA for further clarification and current federal policies.

^c Concentration is expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

^d National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

^e National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

^f Annual Arithmetic Mean

^g To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 0.100 ppm.

^h The CARB has identified lead and vinyl chloride as “toxic air contaminants” with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

ⁱ National lead standard, rolling 3-month average.

^j On June 2, 2010, the U.S. EPA established a 1-hour primary standard for SO₂. In the same action, the 24-hour and annual standards were revoked.

–: No Standard; ppm: parts per million; µg/m³: micrograms per cubic meter; mg/m³: milligrams per cubic meter.

Source: CARB, 2016.

3.2 California State Implementation Plan

Federal clean air laws require areas with unhealthy levels of ozone, inhalable particulate matter, carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop plans, known as State Implementation Plans (SIPs). SIPs are comprehensive plans that describe how an area will attain NAAQS. The 1990 amendments to the Federal CAA set deadlines for attainment based on the severity of an area’s pollution problem. The promulgation of the national 8-hour ozone standard and the fine particulate matter (PM_{2.5}) standards in 1997 resulted in additional statewide air quality planning efforts. In response to new federal regulations, SIPs also began to address ways to improve visibility in national parks and wilderness areas. SIPs are not single documents, but rather a compilation of new and previously submitted plans, programs, district rules, state regulations, and federal controls.

Many of California's SIPs rely on the same core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations, and limits on emissions from consumer products. State law makes CARB the lead agency for all SIP-related purposes. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the U.S. EPA for approval and publication in the Federal Register. The Code of Federal Regulations Title 40, Chapter I, Part 52, Subpart F, Section 52.220 lists all of the items included in the California SIP.

3.3 South Coast Air Quality Management District

The 1977 Lewis Air Quality Management Act created the South Coast Air Quality Management District (SCAQMD) to coordinate air quality planning efforts throughout Southern California. This act merged four county air pollution control agencies into one regional district to better address the issue of improving air quality in Southern California. Under the act, renamed the Lewis-Presley Air Quality Management Act in 1988, SCAQMD is the agency principally responsible for comprehensive air pollution control in the region. Specifically, SCAQMD is responsible for monitoring air quality, as well as planning, implementing, and enforcing programs designed to attain and maintain state and federal ambient air quality standards in the district. Programs that were developed include air quality rules and regulations that regulate stationary sources, area sources, point sources, and certain mobile source emissions. SCAQMD is also responsible for establishing stationary source permitting requirements for stationary sources and ensuring that new, modified, or relocated stationary sources do not create net emission increases and, therefore, is consistent with the regional's air quality goals.

The Federal CAA requires areas not attaining the NAAQS to develop and implement an emission reduction strategy that would bring the area into attainment in a timely manner. The Air Quality Management Plan (AQMP) is the SCAQMD plan for improving regional air quality (SCAQMD, 2022) and it addresses Federal CAA requirements in addition to demonstrating attainment with state and federal ambient air quality standards. The AQMP is prepared by SCAQMD in collaboration with the Southern California Association of Governments and the CARB. The AQMP provides policies and control measures that reduce emissions to attain both state and federal ambient air quality standards by their applicable deadlines. Environmental review of individual projects within the SCAB must demonstrate that daily construction and operational emissions thresholds, as established by the SCAQMD, would not be exceeded. The environmental review must also demonstrate that individual projects would not increase the number or severity of existing air quality violations. The 2022 AQMP was adopted by the SCAQMD Governing Board on December 2, 2022, and it provides actions, strategies and steps needed to reduce air pollution emissions and meet ozone standards by 2037.

3.4 Climate Change

Climate change refers to long-term changes in temperature, precipitation, wind patterns, and other elements of the earth's climate system. An ever-increasing body of scientific research attributes these climatological changes to GHG emissions, particularly those generated from the production and use of fossil fuels.

While climate change has been a concern for several decades, the establishment of the Intergovernmental Panel on Climate Change (IPCC) by the United Nations and World Meteorological Organization in 1988 has led to increased efforts devoted to GHG emissions reduction and climate change research and policy. These efforts are primarily concerned with the emissions of GHGs generated by human activity, including carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), tetrafluoromethane, hexafluoroethane, sulfur hexafluoride (SF₆), HFC-23 (fluoroform), HFC-134a (1,1,1,2-tetrafluoroethane), and HFC-152a (difluoroethane).

In the U.S., the main source of GHG emissions is electricity generation, followed by transportation. In California, transportation sources (including passenger cars, light-duty trucks, other trucks, buses, and motorcycles) make up the largest source of GHG-emitting sources. The dominant GHG emitted is CO₂, mostly from fossil fuel combustion.

There are three routes to reducing GHGs from transportation: increasing the efficiency of vehicle technology, changing how we travel and transport goods, and using lower-carbon fuels. We need all three to help achieve the societal goals on climate (U.S. EPA, 2023).

3.4.1 State Regulations

Assembly Bill 1493 – Light-duty Vehicle Greenhouse Gas Emissions Standards

In a response to the transportation sector’s significant contribution to California CO₂ emissions, Assembly Bill (AB) 1493 was enacted on July 22, 2002. AB 1493 requires the CARB to set GHG emission standards for passenger vehicles and light duty trucks (and other vehicles whose primary use is noncommercial personal transportation in the State) manufactured in 2009 and all subsequent model years. These standards (starting in model years 2009 to 2016) were approved by the CARB in 2004, but the needed waiver of Clean Air Act Preemption was not granted by the USEPA until June 30, 2009. CARB responded by amending its original regulation, now referred to as Low Emission Vehicle III, to take effect for model years starting in 2017 to 2025 (CARB, 2023b).

Executive Order S-3-05 – Statewide Greenhouse Gas Emission Targets

Executive Order (EO) S-3-05 was signed by the Governor on June 1, 2005, which proclaimed that California is vulnerable to the impacts of climate change. To combat those concerns, the executive order established California GHG emissions reduction targets, which established the following goals:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80 percent below 1990 levels

This EO also directed the secretary of the California Environmental Protection Agency to oversee the efforts made to reach these targets and prepare biannual reports on the progress made toward meeting the targets, as well as the impacts to California related to global warming. The first such Climate Action Team Assessment Report was produced in March 2006 and has been updated every 2 years thereafter (Cal. Governor’s EO S-3-05, 2005).

California Global Warming Solutions Act (Assembly Bill 32)

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006, also known as AB 32. AB 32 focuses on reducing GHG emissions in California. GHGs, as defined under AB 32, include CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆.

AB 32 requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. CARB is the state agency charged with monitoring and regulating sources of emissions of GHGs that cause global warming to reduce emissions of GHGs. AB 32 also requires that by January 1, 2008, CARB must determine what the statewide GHG emissions level was in 1990, and it must approve a statewide GHG emissions limit so it may be applied to the 2020 benchmark. CARB approved a 1990 GHG emissions level of 427 million metric tons (MT) of carbon dioxide equivalent (CO₂e), on December 6, 2007, in its staff report. Therefore, in 2020, emissions in California are required to be at, or below, 427 million MT of CO₂e.

Under the “business as usual” scenario established in 2008, statewide emissions were increasing at a rate of approximately 1 percent per year. It was estimated that the 2020 estimated “business as usual” of 596 million MT of CO₂e would have required a 28-percent reduction to reach the 1990 level of 427 million MT of CO₂e (CARB, 2022a).

Senate Bill 97 – CEQA Greenhouse Gas Amendments

SB 97, signed by the Governor in August 2007 (Chapter 185, Statutes of 2007; Public Resources Code, Sections 21083.05 and 21097), acknowledges climate change is a prominent environmental issue that requires analysis under CEQA. This bill directed the State Office of Planning and Research to prepare, develop, and transmit to the California

Resources Agency guidelines for mitigating GHG emissions or the effects of GHG emissions, as required by CEQA. The California Natural Resources Agency adopted the amendments to the State CEQA Guidelines in January 2010, which went into effect in March 2010.

The amendments do not identify a threshold of significance for GHG emissions, nor do they prescribe assessment methodologies or specific mitigation measures. The amendments encourage lead agencies to consider many factors in performing a CEQA analysis, but preserve the discretion granted by CEQA to lead agencies in making their own determinations based on substantial evidence. The amendments also encourage public agencies to make use of programmatic mitigation plans and programs when they perform individual project analyses (SB 97, 2007).

Executive Order S-01-07

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a low carbon fuel standard (LCFS) for transportation fuels be established for California and directs the CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. The CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. On December 29, 2011, District Judge Lawrence O'Neill in the Eastern District of California issued a preliminary injunction blocking the CARB from implementing LCFS for the remainder of the *Rocky Mountain Farmers Union* litigation. The injunction was lifted in April 2012 so that CARB can continue enforcing the LCFS pending an appeal of the federal district court ruling (Cal. Governor's EO S-01-07, 2007).

Senate Bill 375 – Sustainable Communities Act

SB 375, the Sustainable Communities Act, was passed by the State Assembly in August 2008 and signed by the Governor in September 2008. SB 375 is intended to encourage reductions in transportation-related emissions from cars and light trucks. Under SB 275, Metropolitan Planning Organizations are required to prepare and adopt a sustainable community strategy to reach emission reduction targets by linking housing needs and transportation planning with GHG reduction targets (SB 375, 2007).

Executive Order B-30-15

On April 20, 2015, Governor Edmund G. Brown Jr. signed EO B-30-15 to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's EO aligns California's GHG reduction targets with those of leading international governments, such as the 28-nation European Union, which adopted the same target in October 2014. California is on track to meet or exceed its legislated target of reducing GHG emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32). California's new emission reduction target of 40 percent below 1990 levels by 2030 would make it possible to reach the ultimate goal of reducing emissions 80 percent below 1990 levels by 2050. This is in line with the scientifically established levels needed in the U.S. to limit global warming below 2°C, the warming threshold at which there would likely be major climate disruptions, such as super droughts and rising sea levels (Cal. Governor's EO B-30-15, 2015).

Senate Bill 350

SB 350, signed by the Governor on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increasing energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission for private utilities and by the California Energy Commission for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit

funding and regulatory tools already available to state energy agencies under existing law. The addition made by this legislation requires state energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target (SB 350, 2015).

Senate Bill 32

Senate Bill 32 (SB) 32 was signed into law on September 8, 2016, and expands upon AB 32 to reduce GHG emissions. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in the April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps the State on the path toward achieving the 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an IPCC analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO₂e and reduce the likelihood of catastrophic impacts from climate change (SB 32, 2015).

Senate Bill 100

SB 100, adopted in September 2018, requires the state's retail electricity to achieve a 60-percent renewable energy portfolio by 2030 (an increase from 50 percent set forth by SB 350), and percent carbon-free by 2045 (SB 100, 2017).

Executive Order B-55-18

EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter". EO B-55-18 directs the CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO₂e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes (Cal. Governor's EO B-55-18, 2018).

State of California Building Energy Efficiency Standards (Title 24, Part 6)

California's Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations; Title 24, Part 6) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. The premise for the standards is that energy efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space and water heating) results in GHG emissions.

The California Energy Commission adopted new 2013 Building Energy Efficiency Standards effective July 1, 2014. The 2013 standards improve upon the 2008 standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The 2008 standards were updated for a number of reasons, including:

- To respond to AB 32, the Global Warming Solutions Act of 2006
- To pursue California energy policy that would establish energy efficiency as the resource of first choice for meeting California's energy needs
- To act on the findings of California's Integrated Energy Policy Report that indicates standards in general (as opposed to incentives or other mechanisms) are the most cost-effective means to achieve energy efficiency
- To meet California's commitment to include aggressive energy efficiency measures in updates of state building codes
- To meet California's commitment to improve the energy efficiency of nonresidential buildings through aggressive standards

Renewable Portfolio Standard

The Renewable Portfolio Standard (RPS) promotes diversification of the state’s electricity supply and decreased reliance on fossil fuel energy sources. Originally adopted in 2002, with a goal to achieve a 20-percent renewable energy mix by 2020 (referred to as the “initial RPS”), the goals have been accelerated and increased by EO S-14-08 and EO S-21-09 to a goal of 33 percent by 2020. In April 2011, the Governor signed SB 2 codifying California’s 33-percent RPS goal (SB 2, 2011).

Section 399.19 requires the California Public Utilities Commission, in consultation with the California Energy Commission, to report to the Legislature on the progress and status of RPS procurement and other benchmarks. The purpose of the RPS, upon full implementation, is to provide 33 percent of the state’s electricity needs through renewable energy sources. Renewable energy includes, but is not limited to, wind, solar, geothermal, small hydroelectric, biomass, anaerobic digestion, and landfill gas.

The RPS is included in CARB’s scoping plan list of GHG reduction measures to reduce energy sector emissions. It is designed to accelerate the transformation of the electricity sector through such means as investment in the energy transmission infrastructure and systems to allow integration of large quantities of intermittent wind and solar generation. Increased use of renewables would decrease California’s reliance on fossil fuels, thus reducing emissions of GHGs from the electricity sector. In 2008, as part of the scoping plan original estimates, CARB estimated that full achievement of the RPS would decrease statewide GHG emissions by 21.3 million MT of CO₂e. In 2010, CARB increased this number to 24.0 million MT of CO₂e.

Senate Bill 743

SB 743, approved in 2013, changes the way that transportation impacts are analyzed under CEQA. With the amended CEQA Guidelines Section 15064.4, transportation impacts may be evaluated using vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated, as level of service and auto delay are no longer considered a significant impact under CEQA (SB 743, 2013).

Short-Lived Climate Pollutant Reduction Strategy

The final short-lived climate pollutant (SLCP) reduction strategy (SLCP Strategy) was developed pursuant to SB 605 and SB 1383 and lays out a range of options to accelerate SLCP emission reductions in California, including regulations, incentives, and other market-supporting activities. The SLCP Strategy informs and is integrated into the 2017 Climate Change Scoping Plan update, which incorporates input from a wide range of stakeholders to develop a comprehensive plan for achieving the SB 32 statewide 2030 GHG limit of 40 percent below 1990 levels. Achievable goals through implementation of the SLCP Strategy (City of Long Beach, 2017):

- The following reductions by 2030 (from 2013 levels):
 - 50 percent for anthropogenic Black Carbon
 - 40 percent for CH₄
 - 40 percent for HFCs
- Convert manure and organic wastes into valuable energy and soil amendment products
- Reduce disposal of edible foods by diverting them to food banks and other outlets
- Reduce harmful emissions from residential wood stoves
- Accelerate the reduction of the fastest growing source of GHG emissions by building on global HFC phasedown agreements.

California Green Building Code

The California Green Building Standards Code (2016), referred to as CalGreen, took effect on January 1, 2017, and instituted mandatory minimum environmental performance standards for all ground-up new construction of

commercial and low-rise residential buildings, state-owned buildings, schools, and hospitals (State of California, 2021).

Executive Order N-79-20

EO N-79-20, which was signed by the Governor on September 23, 2020, sets the following goals for the State: 100 percent of in-state sales of new passenger cars and trucks shall be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the State shall be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks; and 100 percent of off-road vehicles and equipment in the State shall be zero-emission by 2035, where feasible (Cal. Governor’s EO N-79-20, 2020).

3.4.2 Local Regulations

City of Long Beach Climate Action and Adaptation Plan

Pursuant to California SB 379, all California cities and counties are required to include climate adaptation and resiliency strategies in their general plans to ensure safety and protection of their community in the future. The City of Long Beach developed a Climate Change Action and Adaptation Plan (CAAP) that provides a framework for creating or updating policies, programs, practices, and incentives for Long Beach residents and businesses to reduce the City’s GHG footprint, and ensure the community and physical assets are better protected from the impacts of climate change (City of Long Beach, 2022).

The climate action/mitigation element of the CAAP includes the following steps:

- A GHG inventory of emissions from various sectors in the Long Beach community, such as building energy, transportation, solid waste, and wastewater.
- A forecast of projected emissions based on anticipated City growth.
- Development of GHG reduction targets based on the latest climate science, and local, regional, State, and federal context and requirements.
- Analysis of existing sustainability and climate mitigation efforts.
- Development of additional GHG mitigation strategies to reduce future emissions from key sectors.
- Development of a framework for implementing mitigation strategies.
- A plan to monitor the performance of the mitigation strategies using performance metrics to track GHG reduction targets.

City of Long Beach Municipal Code

Section 21.45.400 of the City’s Municipal Code further regulates public and private development to include various standards that promote green buildings. A green building, also known as a sustainable building, is a structure that is designed, built, renovated, operated, or reused in an ecological and resource-efficient manner. Green buildings are designed to meet certain objectives such as protecting occupant health; improving employee productivity; using energy, water and other resources more efficiently; and reducing the overall impact to the environment. The City of Long Beach recognizes the benefit of green buildings and establishes a green building program (Long Beach Municipal Code Section 21.45.400).

City of Long Beach General Plan

The City of Long Beach’s General Plan Mobility Element includes strategies to reduce single-occupancy vehicle trips and reduce vehicle miles traveled and associated GHG emissions. Policies in Mobility Element include reducing

vehicle miles traveled and vehicle trips through alternative modes of transportation and Transportation Demand Management; encouraging use of low- or no-emissions vehicles to reduce pollution; and supporting the development of a network of alternative fuel vehicle charging/fueling stations Citywide (City of Long Beach, 2013).

City of Seal Beach General Plan

The City of Seal Beach's General Plan Growth Management Element includes planned transportation improvements and associated GHG emissions. The major transportation programs identified in the Management Element, to help alleviate future traffic congestion, include efficient utilization of existing roadway capacity through transportation system management strategies and promotion of increased ridership through alternate means of travel, such as expansion of public transit routes, van pooling, and carpool (City of Seal Beach, 2003).

AFFECTED ENVIRONMENT

4.1 Climate

The project is located in the City of Long Beach and the City of Seal Beach, an area within the SCAB, which includes Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. Air quality regulation in the SCAB is administered by SCAQMD.

The SCAB climate is determined by its terrain and geographical location. The SCAB is a coastal plain connecting to broad valleys and low hills. The Pacific Ocean forms the southwestern boundary, and high mountains surround the rest of the SCAB. The region lies in the semi-permanent high-pressure zone of the eastern Pacific. The resulting climate is mild and tempered by cool ocean breezes. This climatological pattern is rarely interrupted; however, periods of extremely hot weather, winter storms, and Santa Ana wind conditions do occur.

The annual average temperature varies little throughout the SCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The annual average maximum temperature recorded at the Long Beach Daugherty Field Station, the closest climatological station to the project site, is 74.2°F, and the annual average minimum is 54.8°F. January is typically the coldest month in this area of the SCAB.

The majority of annual rainfall in the SCAB occurs between November and April. Summer rainfall is minimal and generally limited to scattered thundershowers in coastal regions and slightly heavier showers in the eastern part of the SCAB along the coastal side of the mountains. Average rainfall measured at the Long Beach Daugherty Field Station varies from 2.90 inches in February to 0.19 inches or less between June and September, with an average annual total of 12.01 inches.

The SCAB experiences a persistent temperature inversion (increasing temperature with increasing altitude) as a result of the Pacific high. This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer. This phenomenon is observed from midafternoon to late afternoon on hot summer days when the smog appears to clear up suddenly. Winter inversions frequently break by midmorning.

Inversion layers are essential in determining O₃ formation. O₃ and its precursors will mix and react to produce higher concentrations under an inversion. The inversion will also simultaneously trap and hold directly emitted pollutants such as CO. PM₁₀ is both directly emitted and created indirectly in the atmosphere as a result of chemical reactions. Concentration levels are directly related to inversion layers because of the limitation of mixing space.

Surface or radiation inversions are formed when the ground surface becomes cooler than the air above it during the night. The earth's surface goes through a radiative process on clear nights when heat energy is transferred from the ground to a cooler night sky. As the earth's surface cools during the evening hours, the air directly above it also cools, while air higher up remains relatively warm. The inversion is destroyed when heat from the sun warms the ground,

which in turn heats the lower layers of air; this heating stimulates the ground level air to float up through the inversion layer.

The combination of stagnant wind conditions and low inversions produces the greatest concentration of pollutants. On days of no inversion or high wind speeds, ambient air pollutant concentrations are the lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore and east into Riverside and San Bernardino Counties. In the winter, the greatest pollution problems are from CO and oxides of nitrogen (NO_x) because of extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and NO_x to form photochemical smog.

4.2 Monitored Air Quality Pollutants

SCAQMD monitors air quality conditions at 37 locations throughout the SCAB. The closest monitoring stations to the project site are the Long Beach – Signal Hill Station, located at 1710 E 20th Street, and the South Long Beach Station, located at 1305 E Pacific Coast Highway. O₃, SO₂, PM_{2.5}, PM₁₀ are monitored at these two sites. The closest CO monitoring station to the project site is the Compton Station, located at 700 N Bullis Road, Compton. Table 2 shows pollutant levels, the state and federal standards, and the number of exceedances recorded at these stations from 2019 to 2021.

4.2.1 Carbon Monoxide

CO is a colorless and odorless gas formed by the incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. CO is a non-reactive air pollutant that dissipates relatively quickly, so ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions; that is, primarily wind speed, topography, and atmospheric stability. As identified in Table 2, the CO concentrations in the project area have not exceeded the federal or state standards in the past 3 years.

Table 2. Ambient Air Quality Monitoring Stations and Monitoring Data

Pollutant	Averaging Time	Federal Primary Standards	California Standards	Maximum Concentrations ^a			Number of Days Exceeding Federal Standard ^b			Number of Days Exceeding State Standard ^b		
				2019	2020	2021	2019	2020	2021	2019	2020	2021
O ₃ (Signal Hill)	1 hour	none	0.09 ppm	*	0.105	0.086	—	—	—	*	4	0
	8 hour	0.07 ppm	0.07 ppm	*	0.083	0.064	*	4	0	*	4	0
CO (Compton)	1 hour	35 ppm	20 ppm	3.8	4.5	4.3	0	0	0	0	0	0
	8 hour	9 ppm	9.0 ppm	3.2	3.1	3.7	0	0	0	0	0	0
SO ₂ (Signal Hill)	1 hour	0.075 ppm	0.25 ppm	*	*	0.0059	*	*	0	*	*	0
NO ₂ (Signal Hill)	1 hour	none	0.18 ppm	*	0.075	0.059	—	—	—	*	0	0
	Annual	0.053 ppm	0.030 ppm	*	0.013	0.013	*	0	0	*	0	0
PM ₁₀ ^c (South Long Beach)	24 hours	150 µg/m ³	50 µg/m ³	72.0	59.0	48.0	0	0	0	2	2	0
	Annual	Revoked	20 µg/m ³	21.0	24.9	22.7	—	—	—	1	1	1
PM _{2.5} (South Long Beach)	24 hours	35 µg/m ³	none	30.6	39.0	42.9	0	1	4	—	—	—
	Annual	15 µg/m ³	12 µg/m ³	9.2	11.4	11.5	0	0	0	0	0	0

ppm: parts per million; —: data not available or applicable; µg/m³: micrograms per cubic meter; *: insufficient data to determine the value

^a Concentration units for O₃, CO, and NO₂ are in ppm. Concentration units for PM₁₀ and PM_{2.5} are in micrograms per cubic meter (µg/m³).

^b For annual standards, a value of 1 indicates that the standard has been exceeded.

^c PM₁₀ data are recorded separately for federal and State purposes because USEPA and California methods differ slightly. Federal values are shown. PM₁₀ is measured every 6 days; the number of days exceeding standards is projected to a 365-day base from the measurements.

Source: SCAQMD, 2023a

4.2.2 Ozone

O₃ is a colorless gas that is formed in the atmosphere when reactive organic gases (ROG), which includes volatile organic compounds (VOC), and NO_x react in the presence of ultraviolet sunlight. O₃ is not a primary pollutant; it is a secondary pollutant formed by complex interactions of two pollutants directly emitted into the atmosphere. The primary sources of ROG and NO_x, the components of O₃, are automobile exhaust and industrial sources. Meteorology and terrain play major roles in O₃ formation. Ideal conditions occur during summer and early autumn, on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. The greatest source of smog-producing gases is the automobile. Short-term exposure (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. As identified in Table 2, the state and federal 8-hour O₃ standards and 1-hour state O₃ standard were exceeded in 2020.

4.2.3 Oxides of Sulfur

SO₂ is a colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. Main sources of SO₂ are coal and oil used in power plants and industries. Generally, the highest levels of SO₂ are found near large industrial complexes. In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits on the sulfur content of fuels. SO₂ is an irritant gas that attacks the throat and lungs. It can cause acute respiratory symptoms and diminished ventilator function in children.

4.2.4 Coarse Particulate Matter

Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. Inhalable particulate matter, or PM₁₀, is about 1/7 the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. When inhaled, PM₁₀ particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. As identified in Table 2, the state and federal PM₁₀ standards were exceeded in 2019, 2020, and 2021.

4.2.5 Fine Particulate Matter

Fine particulate matter, or PM_{2.5}, is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. In addition, PM_{2.5} can be formed in the atmosphere from gases, such as SO₂, NO_x, and VOC. Very small particles of substances, such as lead, sulfates, and nitrates can cause lung damage directly. These substances can be absorbed into the blood stream and cause damage elsewhere in the body. These substances can transport absorbed gases, such as chlorides or ammonium, into the lungs and cause injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility. As identified in Table 2, the federal PM_{2.5} standards were exceeded in 2020 and 2021.

4.2.6 Volatile Organic Compounds or Reactive Organic Gases

VOCs are carbon-containing compounds that evaporate into the air. VOCs contribute to the formation of smog and/or may be toxic. VOCs often have an odor, and examples include gasoline, alcohol, and the solvents used in paints. The SCAQMD does not directly monitor VOCs. There are no specific state or federal VOC thresholds, as they are regulated by individual air districts as O₃ precursors.

4.3 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive populations (sensitive receptors) that are in proximity to localized sources of toxics, particulate matter, and CO are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The majority of the land use in the project area is residential.

The closest residences to the Project site are the homes along the SR22 off-ramp to Studebaker Road that are located less than 15 feet from the residential privacy walls to the RW pipeline alignment.

METHODS AND THRESHOLDS

The air quality and GHG analysis contained herein provides an evaluation of the Project's short-term construction and long-term operation emissions using the methodologies and significance thresholds outlined in this chapter.

5.1 Methods

5.1.2 Criteria Air Pollutants

Emissions of criteria air pollutants were estimated using existing conditions information, project construction details, and project operations information, as well as a combination of emission factors from the following sources:

- CalEEMod (Version 2020.4.0) emission model for estimating exhaust emissions from off-road construction equipment and on-road motor vehicles
- CalEEMod (Version 2020.4.0) emission model for calculating the long-term mobile, energy, and area source emissions

5.1.3 Quantification of Greenhouse Gases

For the purposes of determining whether or not GHG emissions from affected projects are adverse, SCAQMD specifies that project emissions must include direct, indirect, and, to the extent information is available, life cycle emissions during construction and operation. Based on this direction, construction emissions were amortized over the life of the project (defined as 30 years), added to the operational emissions, and compared to the applicable GHG significance thresholds.

5.2 CEQA Significance Criteria

For the purposes of this air quality analysis, the project would have a significant impact on air quality or global climate change if it would:

- Conflict with or obstruct implementation of the applicable air quality plan
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard
- Expose sensitive receptors to substantial pollutant concentrations
- Result in other emissions (such as those leading to odors) affecting a substantial number of people
- Generate GHG emissions, either directly or indirectly, that may have an adverse effect on the environment
- Conflict with applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs

5.3 South Coast Air Quality Management District Guidelines

Specific criteria for determining whether the potential air quality impacts of a project are significant are set forth in the CEQA Air Quality Handbook (SCAQMD, 1993). The revised SCAQMD Air Quality Significance Thresholds table, reflecting a redesignation for attainment status for the Coachella Valley and the CEQA Air Quality Handbook thresholds, is available online (SCAQMD, 2023b). Table 3 lists the daily thresholds for construction and operations emissions that have been established by the SCAQMD and would be used in the analysis of air quality impacts for the proposed project to determine significance.

5.3.1 Localized Significance Thresholds

SCAQMD has developed localized significance threshold (LST) methodology and mass rate look-up tables, by source receptor area, that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (SCAQMD, 1993; SCAQMD, 2009). LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state

Table 3. South Coast Air Quality Management District Air Quality Thresholds of Significance

Pollutant	Construction (pounds/day)	Operation (pounds/day)
NO _x	100	55
VOC	75	55
PM ₁₀	150	150
PM _{2.5}	55	55
SO _x	150	150
CO	550	550

Source: SCAQMD, 1993; SCAQMD, 2023b.

ambient air quality standard and are developed based on the ambient concentrations of that pollutant for each source receptor area. LSTs are derived based on the location of the activity (i.e., the source receptor area); the emission rates of NO_x, CO, PM₁₀ and PM_{2.5}; the size of the project study area, and the distance to the nearest exposed individual. For this project, the appropriate source receptor area for the LST is the South Coastal Los Angeles County area (Area 4). Although the Project site is less than 1 acre. Therefore, the 1-acre LST rates are used for this Project. The nearest sensitive receptors to the Project site are the residences located along the SR22 off-ramp to Studebaker Road at a distance of less than 25 meters. Table 4 lists the LST emission rates for a 1-acre site located within 25 meters of a sensitive use.

Table 4. South Coast Air Quality Management District Localized Significance Thresholds

Pollutant	Construction (pounds/day)	Operation (pounds/day)
NO _x	57	57
CO	585	585
PM ₁₀	4	1
PM _{2.5}	3	1

Sources: SCAQMD, 1993; SCAQMD, 2009.

5.3.2 Local Carbon Monoxide Concentrations

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below state and federal CO standards. If ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, project emissions are considered significant if they increase 1-hour CO concentrations by 1.0 parts per million (ppm) or more or 8-hour CO concentrations by 0.45 ppm or more. The following are applicable local emission concentration standards for CO:

- California state 1-hour CO standard of 20.0 ppm
- California state 8-hour CO standard of 9.0 ppm

5.3.3 Greenhouse Gas Emission Threshold

The SCAQMD's interim thresholds for commercial, residential, mixed use and industrial development projects are as follows:

- Industrial projects – 10,000 MT of carbon dioxide equivalent (CO₂e) per year
- Residential, commercial, and mixed-use projects (including parks, warehouses, etc.) 3,000 MT CO₂e per year

The project includes the installation of an RW pipeline. Thus, for the purposes of this analysis, both direct and indirect GHG emissions from the Project are discussed in the context of the 10,000 MT threshold levels (SCAQMD, 2023b).

PROJECT IMPACTS

Air pollutant emissions associated with the Project would occur over the short term from construction activities, such as fugitive dust from site preparation and grading and emissions from equipment exhaust. During operation, there would be minimal long-term regional emissions associated with Project-related maintenance vehicular trips.

6.1 Air Quality Emissions

6.1.1 Construction Impacts

Construction activities associated with implementation of the Project have the potential to create air quality impacts through the use of heavy-duty construction equipment, construction worker vehicle trips, material delivery trips, and heavy-duty haul truck trips generated from construction activities. In addition, earthwork activities would result in fugitive dust emissions and paving operations and would also release ROG_s from off-gassing. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. The assessment of construction air quality impacts considers each of these potential sources.

Equipment Exhaust and Related Construction Activities

The construction emissions for each phase of construction were calculated using the CalEEMod model. The total exhaust emissions generated during the entire construction period are listed in Table 5. The construction emission estimates are also detailed in Appendix A. As identified in Table 5, the daily construction emissions would not exceed the SCAQMD's thresholds.

Fugitive Dust

Fugitive dust emissions are generally associated with land clearing, exposure, and cut-and-fill operations. Dust generated daily during construction would vary substantially, depending on the level of activity, the specific operations, and weather conditions. Nearby sensitive receptors and on-site workers may be exposed to blowing dust, depending upon prevailing wind conditions. Fugitive dust also would be generated as construction equipment or trucks travel on unpaved areas of the construction site.

PM₁₀ and PM_{2.5} emissions from the Project's construction were calculated using the CalEEMod model and are included in the emissions listed in Table 5. SCAQMD has established Rule 403 for reducing fugitive dust emissions through the use of best available control measures. As identified in Table 5, the Project's PM₁₀ emissions would not exceed the SCAQMD's significance thresholds. These estimates assume compliance with SCAQMD Rule 403.

Odors

Construction of the project could result in emission of odors from construction equipment and vehicles (e.g., diesel exhaust). It is anticipated that these odors would be short-term, limited in extent at any given time, and distributed throughout the project study area during the duration of construction, and, therefore, would not affect a substantial number of individuals.

Table 5. Total Daily Exhaust Emissions Thresholds During Construction (pounds/day)

Phase	CO	ROGs	NO _x	PM ₁₀	PM _{2.5}
Site Preparation	5.5	0.6	6.2	0.3	0.2
Pavement Removal	7.8	0.9	6.7	0.7	0.4
RW Pipeline Installation	3.5	0.2	2.0	0.1	0.1
Paving	5.0	0.4	3.0	0.3	0.2
Peak Day (pounds/day)	21.8	2.1	17.9	1.4	0.9
SCAQMD Thresholds	550	75	100	150	55
Exceedance of SCAQMD Thresholds?	No	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 micrometers and smaller; PM _{2.5} =particles of 2.5 micrometers and smaller; ROG=volatile organic gases; SCAQMD= South Coast Air Quality Management District Source: SCAQMD, 1993; SCAQMD, 2023b.					

Localized Significance Threshold Analysis

Table 6 show the construction-related emissions of CO, NO_x, PM₁₀, and PM_{2.5} compared to the LSTs for the South Coastal Los Angeles County area at a distance of 25 meters. As required by the SCAQMD's Localized Significance Threshold Methodology (2008), only the on-site construction emissions are included in Table 6. As identified, the calculated emissions rates for the Project's on-site construction activities would not exceed the SCAQMD's LSTs.

Table 6. Summary of On-Site Construction Emissions, Localized Significance (pounds/day)

Project Phase	Emission Rates (pounds/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
Site Preparation	5.3	6.1	0.2	0.2
Pavement Removal	7.3	6.7	0.3	0.3
RW Pipeline Installation	3.3	2.0	0.1	0.1
Paving	4.7	3.0	0.2	0.2
Peak Day (pounds/day)	20.6	17.8	0.8	0.8
SCAQMD Thresholds	585	57	4	3
Exceeds Daily SCAQMD Threshold?	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 micrometers and smaller; PM _{2.5} =particles of 2.5 micrometers and smaller; SCAQMD= South Coast Air Quality Management District LST Thresholds based on South Coastal Los Angeles County Area, 1-acre LST rate within 25 meters of a sensitive receptor (SCAQMD, 2009).				

6.1.2 Operation Impacts

Long-term air pollutant emission impacts are those associated with stationary sources and mobile sources involving any project-related changes. The proposed project would have minimal long-term operational air quality impacts from mobile source emissions associated with maintenance vehicular trips in the project study area.

On-Road, Energy, and Area Source Emissions

The CalEEMod model was used to calculate the Project’s operations. Table 7 identifies the peak daily emissions from operations and maintenance of the Project.

Table 7. Total Daily Exhaust Emissions Thresholds During Operation (pounds/day)

Source	CO	NO _x	ROG	SO _x	PM ₁₀	PM _{2.5}
Area	4.0	0.1	1.2	0	0	0
Energy	0	0	0	0	0	0
Mobile	0	0	0	0	0	0
Total	4	0.1	1.2	0	0	0
SCAQMD Thresholds	550	55	55	150	150	55
Exceeds Daily SCAQMD Threshold?	No	No	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 micrometers and smaller; PM _{2.5} =particles of 2.5 micrometers and smaller; ROG=Volatile Organic Gases; SCAQMD= South Coast Air Quality Management Source: SCAQMD, 1993; SCAQMD, 2023b.						

Localized Significance Threshold Analysis

Table 8 identifies the operations emissions of CO, NO_x, PM₁₀, and PM_{2.5} compared to the LSTs for the South Coastal Los Angeles County area at a distance of 25 meters. As required by the SCAQMD’s LST Methodology (SCAQMD, 2008), only the on-site emissions are included in Table 8. Table 8 includes all of the area source and energy emissions, and 5 percent of the on-road emissions. As shown, the calculated emissions rates for the Project’s on-site operation activities would not exceed the LSTs.

Long-Term Microscale (Carbon Monoxide Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the project vicinity. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile source pollutant of local concern is CO, which is a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting local sensitive receptors (residents, schoolchildren, the elderly, and hospital patients, etc.).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended, to determine a project’s effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored in the Compton station showed a highest recorded 1-hour concentration of 4.5 ppm (state standard is 20 ppm) and a highest 8-hour concentration of 3.7 ppm (state standard is 9 ppm) during the past 3 years (Table 2). The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Table 8. Summary of On-Site Operation Emissions, Localized Significance (pounds/day)

Project Phase	Emission Rates (pounds/day)			
	CO	NOX	PM ₁₀	PM _{2.5}
Area	4	0	0	0
Energy	0	0	0	0
Mobile	0	0	0	0
Total (pounds/day)	4	0	0	0
SCAQMD Thresholds	585	57	1	1
Exceeds Daily SCAQMD Threshold?	No	No	No	No
Notes: CO=carbon monoxide; NO _x =oxides of nitrogen; PM ₁₀ =particles of 10 micrometers and smaller; PM _{2.5} =particles of 2.5 micrometers and smaller; SCAQMD= South Coast Air Quality Management District LST Thresholds based on South Coastal Los Angeles County Area, 1-acre LST rate within 25 meters of a sensitive receptor (SCAQMD, 2009).				

Given the extremely low level of CO concentrations in the project area, project-related vehicles are not expected to result in the CO concentrations exceeding the state or federal CO standards. Because no CO hot spot would occur, there would be no project-related impacts on CO concentrations if the project was constructed on the project site.

6.2 Greenhouse Gas Emissions

The analysis of GHG emissions, unlike air quality analysis, which is a ‘per day’ threshold, is an aggregate quantity requiring summation over the total estimated number of work days (i.e., the total number of days that any construction grading vehicle would have an engine running).

6.2.1 Construction Emissions

Construction of the Project would result in temporary emissions associated with diesel engine combustion from mass grading, and site preparation construction equipment would be assumed to occur for engines running at the correct fuel-to-air ratios (the ratio whereby complete combustion of the diesel fuel occurs). Construction-related GHG emissions include site preparation, excavation, and associated construction of the proposed business park complex.

The most recent version of the CalEEMod model (Version 2020.4.0) was used to calculate the construction emissions. Table 9 quantifies the expected GHG emissions from Project construction activities. As shown, construction of the Project would generate 907.5 MT of CO₂e.

Amortized over a 30-year period, the approximate life of the project, the yearly contribution to GHG from the construction of the project would be 30.3 MT of CO₂e per year.

Table 9. Construction Greenhouse Gas Emissions

Year	Pollutant Emissions (metric tons/year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
2025	351.6	0.10	0	354.6
2026	548.4	0.16	0	552.9
Total	900	0.26	0	907.5
Notes: CH ₄ =methane; CO ₂ =carbon dioxide; CO ₂ e=carbon dioxide equivalent; N ₂ O= nitrous oxide				

6.2.2 Operation Emissions

The Project’s operations GHG emissions estimates were also calculated using CalEEMod. The Project operations would result in neglectable average annual emissions of CO₂e per year. The total annual GHG emissions of 30.3 MT of CO₂e from the Project construction activities is less than the SCAQMD’s threshold of 10,000 MT of CO₂e per year. Therefore, the Project would have a less than significant individual and cumulative impact for GHG emissions.

6.3 Air Quality Management Plan Consistency

An AQMP describes air pollution control strategies to be taken by a city/county or region classified as a nonattainment area. The main purpose of an AQMP is to bring the area into compliance with the requirements of federal and state air quality standards. CEQA requires that certain proposed projects be analyzed for consistency with the AQMP. For a project to be consistent with the 2016 AQMP, the pollutants emitted from the project should not exceed the SCAQMD daily threshold or cause a significant impact on air quality. However, if feasible mitigation measures are implemented and shown to reduce the impact level from significant to less than significant, the project is deemed consistent with the AQMP. As discussed in Section 6.1, the Project’s short-term construction and long-term operational emissions would not exceed the SCAQMD’s significance thresholds. Therefore, implementation of the project would not conflict with the 2016 AQMP, and no significant impacts would result.

6.4 Cumulative Impact

The Project area is currently in nonattainment for O₃, PM₁₀, and PM_{2.5}. As shown in Table 5 and Table 6, the Project’s construction emissions would not exceed the SCAQMD’s significance thresholds. Construction of the project would not contribute cumulatively to the local and regional air pollutants, together with other projects under construction. Therefore, construction of the Project would not contribute to significant cumulative air quality impacts.

As shown in Table 7 and Table 8, the Project’s operations emissions would not exceed the SCAQMD’s long-term emission thresholds. In addition, as shown in Table 9, the Project’s GHG emissions during construction would be less than the SCAQMD’s interim threshold. Therefore, the Project’s construction and operation would not contribute to a long-term cumulative air quality impact.

MITIGATION MEASURES

The following mitigation measures would be implemented during construction activities:

- AQ-1** During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions shall be controlled by regular watering or other dust preventive measures using the following procedures, as specified in the SCAQMD Rule 403. All material excavated or graded shall be sufficiently watered in sufficient quantities to prevent the generation of visible dust plumes. Watering shall occur at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. All material transported on-site or off-site shall be securely covered to prevent excessive amounts of dust. The area disturbed by clearing, grading, earth moving, or excavation operations shall be minimized so as to

prevent excessive amounts of dust. The following control techniques shall be indicated in Project specifications:

- Minimize land disturbance
- Use watering trucks to minimize dust; watering should be sufficient to confine dust plumes to the project work areas
- Suspend grading and earth moving when wind gusts exceed 25 miles per hour unless the soil is wet enough to prevent dust plumes
- Cover trucks when hauling dirt
- Stabilize the surface of dirt piles if not removed immediately
- Limit vehicular paths on unpaved surfaces and stabilize any temporary roads
- Sweep paved streets where there is evidence of dirt that has been carried on to the roadway
- Provide an operational water truck on-site at all times and use watering trucks to minimize dust; watering should be sufficient to confine dust plumes to the Project work areas.

AQ-2 The following measures shall be implemented as best management practices to minimize construction emissions:

- Minimize unnecessary vehicular and machinery activities
- Ensure that all construction equipment is properly tuned and maintained
- Minimize idling time to 5 minutes, which saves fuel and reduces emissions
- Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary power generators.

CONCLUSION

Regional emissions during the Project's construction, calculated with the CalEEMod (Version 2020.4.0) model, would not exceed criteria pollutant thresholds established by the SCAQMD. Compliance with SCAQMD Rules and Regulations during construction would reduce construction-related air quality impacts from fugitive dust emissions and construction equipment emissions. The Project's long-term operations emissions are below the SCAQMD thresholds. Therefore, the Project's air quality impacts, during construction and operation, are less than significant.

The Project's total annual GHG emissions of 30.3 MT of CO₂e are less than the SCAQMD's threshold of 10,000 MT of CO₂e per year. Therefore, the Project would have a less than significant individual and cumulative impact for GHG emissions.

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APPENDICES

APPENDIX A
CalEEMod Results

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Haynes Generating Station
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	39,500.00	User Defined Unit	0.91	39,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Data Provided by the Engineer

Construction Phase - Construction phases would occur at the same time, progress along the alignment.

Construction Off-road Equipment Mitigation -

Off-road Equipment - construction equipment provided by the engineer

Off-road Equipment - Construction equipment provided by the engineer

Off-road Equipment -

Off-road Equipment - Construction equipment provided by the engineer

Off-road Equipment - Construction equipment provided by the engineer

Grading - Assume paving material haul truck capacity is 14 tons

Assume total acres graded is 1 acre

Demolition -

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - # Trips Vendor (/day) TBD

Architectural Coating - No Architectural Coatings would apply

Area Coating - No Area Architectural Coatings would apply

Landscape Equipment - No Landscape Equipments would use

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	19750	0
tblAreaCoating	Area_Nonresidential_Interior	59250	0
tblConstructionPhase	NumDays	1.00	392.00
tblConstructionPhase	NumDays	5.00	392.00
tblConstructionPhase	NumDays	10.00	392.00
tblConstructionPhase	PhaseEndDate	11/5/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/13/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	11/12/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/16/2025	12/1/2026
tblConstructionPhase	PhaseStartDate	6/19/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	11/6/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblGrading	AcresOfGrading	196.00	1.00
tblGrading	MaterialExported	0.00	140.00
tblGrading	MaterialImported	0.00	1,750.00
tblGrading	MaterialSiltContent	6.90	4.30
tblGrading	MeanVehicleSpeed	7.10	40.00
tblLandscapeEquipment	NumberSummerDays	250	0
tblLandUse	LandUseSquareFeet	0.00	39,500.00
tblLandUse	LotAcreage	0.00	0.91
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	9.00

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	HorsePower	172.00	81.00
tblOffRoadEquipment	HorsePower	158.00	89.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.42	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.1595	1.3707	1.6653	3.9800e-003	0.0609	0.0588	0.1197	0.0157	0.0541	0.0698	0.0000	351.6330	351.6330	0.1059	9.3000e-004	354.5591
2026	0.2484	2.1402	2.5935	6.2100e-003	0.0857	0.0918	0.1774	0.0221	0.0844	0.1066	0.0000	548.3741	548.3741	0.1654	1.4000e-003	552.9247
Maximum	0.2484	2.1402	2.5935	6.2100e-003	0.0857	0.0918	0.1774	0.0221	0.0844	0.1066	0.0000	548.3741	548.3741	0.1654	1.4000e-003	552.9247

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.1595	1.3707	1.6653	3.9800e-003	0.0513	0.0588	0.1101	0.0133	0.0541	0.0674	0.0000	351.6326	351.6326	0.1059	9.3000e-004	354.5587
2026	0.2484	2.1402	2.5935	6.2100e-003	0.0759	0.0918	0.1676	0.0197	0.0844	0.1041	0.0000	548.3735	548.3735	0.1654	1.4000e-003	552.9241
Maximum	0.2484	2.1402	2.5935	6.2100e-003	0.0759	0.0918	0.1676	0.0197	0.0844	0.1041	0.0000	548.3735	548.3735	0.1654	1.4000e-003	552.9241

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	13.25	0.00	6.54	12.92	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2025	8-31-2025	0.6568	0.6568
2	9-1-2025	11-30-2025	0.6501	0.6501
3	12-1-2025	2-28-2026	0.6428	0.6428
4	3-1-2026	5-31-2026	0.6566	0.6566
5	6-1-2026	8-31-2026	0.6564	0.6564
6	9-1-2026	9-30-2026	0.2140	0.2140
		Highest	0.6568	0.6568

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1427	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1427	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2025	12/1/2026	5	392	
2	Pavement Removal	Demolition	6/1/2025	12/1/2026	5	392	
3	Pipeline Installation	Trenching	6/1/2025	12/1/2026	5	392	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Paving	Paving	6/1/2025	12/1/2026	5	392
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Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	187	0.41
Paving	Off-Highway Trucks	1	8.00	9	0.56
Pavement Removal	Other Construction Equipment	1	8.00	81	0.73
Pipeline Installation	Cranes	0	8.00	231	0.29
Pipeline Installation	Excavators	1	8.00	89	0.20
Pavement Removal	Concrete/Industrial Saws	0	8.00	81	0.73
Pavement Removal	Excavators	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Pavement Removal	Off-Highway Trucks	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pavement Removal	Rubber Tired Dozers	0	8.00	247	0.40
Pavement Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	187.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0169	0.0000	0.0169	4.3300e-003	0.0000	4.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0474	0.4661	0.4044	1.2500e-003		0.0159	0.0159		0.0146	0.0146	0.0000	109.7419	109.7419	0.0355	0.0000	110.6292
Total	0.0474	0.4661	0.4044	1.2500e-003	0.0169	0.0159	0.0328	4.3300e-003	0.0146	0.0190	0.0000	109.7419	109.7419	0.0355	0.0000	110.6292

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	5.0000e-003	1.3200e-003	2.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.0000e-004	0.0000	2.0611	2.0611	1.2000e-004	3.3000e-004	2.1617
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037
Total	1.7800e-003	6.2400e-003	0.0195	7.0000e-005	7.3400e-003	7.0000e-005	7.4000e-003	1.9500e-003	6.0000e-005	2.0200e-003	0.0000	7.2260	7.2260	2.4000e-004	4.5000e-004	7.3654

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6100e-003	0.0000	7.6100e-003	1.9500e-003	0.0000	1.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0474	0.4661	0.4044	1.2500e-003		0.0159	0.0159		0.0146	0.0146	0.0000	109.7418	109.7418	0.0355	0.0000	110.6291
Total	0.0474	0.4661	0.4044	1.2500e-003	7.6100e-003	0.0159	0.0235	1.9500e-003	0.0146	0.0166	0.0000	109.7418	109.7418	0.0355	0.0000	110.6291

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	5.0000e-003	1.3200e-003	2.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.0000e-004	0.0000	2.0611	2.0611	1.2000e-004	3.3000e-004	2.1617
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037
Total	1.7800e-003	6.2400e-003	0.0195	7.0000e-005	7.3400e-003	7.0000e-005	7.4000e-003	1.9500e-003	6.0000e-005	2.0200e-003	0.0000	7.2260	7.2260	2.4000e-004	4.5000e-004	7.3654

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0169	0.0000	0.0169	4.3300e-003	0.0000	4.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0741	0.7281	0.6317	1.9500e-003		0.0249	0.0249		0.0229	0.0229	0.0000	171.4269	171.4269	0.0554	0.0000	172.8130
Total	0.0741	0.7281	0.6317	1.9500e-003	0.0169	0.0249	0.0418	4.3300e-003	0.0229	0.0272	0.0000	171.4269	171.4269	0.0554	0.0000	172.8130

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.7300e-003	2.0800e-003	3.0000e-005	9.8000e-004	5.0000e-005	1.0300e-003	2.7000e-004	5.0000e-005	3.1000e-004	0.0000	3.1578	3.1578	1.9000e-004	5.0000e-004	3.3121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439
Total	2.6200e-003	9.4800e-003	0.0287	1.1000e-004	0.0115	1.1000e-004	0.0116	3.0500e-003	1.0000e-004	3.1400e-003	0.0000	11.0447	11.0447	3.5000e-004	6.8000e-004	11.2560

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6100e-003	0.0000	7.6100e-003	1.9500e-003	0.0000	1.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0741	0.7281	0.6317	1.9500e-003		0.0249	0.0249		0.0229	0.0229	0.0000	171.4267	171.4267	0.0554	0.0000	172.8128
Total	0.0741	0.7281	0.6317	1.9500e-003	7.6100e-003	0.0249	0.0325	1.9500e-003	0.0229	0.0248	0.0000	171.4267	171.4267	0.0554	0.0000	172.8128

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.7300e-003	2.0800e-003	3.0000e-005	9.8000e-004	5.0000e-005	1.0300e-003	2.7000e-004	5.0000e-005	3.1000e-004	0.0000	3.1578	3.1578	1.9000e-004	5.0000e-004	3.3121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439
Total	2.6200e-003	9.4800e-003	0.0287	1.1000e-004	0.0115	1.1000e-004	0.0116	3.0500e-003	1.0000e-004	3.1400e-003	0.0000	11.0447	11.0447	3.5000e-004	6.8000e-004	11.2560

3.3 Pavement Removal - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-004	0.0000	5.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0654	0.5095	0.5595	1.5400e-003		0.0252	0.0252		0.0232	0.0232	0.0000	135.2941	135.2941	0.0438	0.0000	136.3880
Total	0.0654	0.5095	0.5595	1.5400e-003	5.8000e-004	0.0252	0.0258	9.0000e-005	0.0232	0.0233	0.0000	135.2941	135.2941	0.0438	0.0000	136.3880

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.3086	0.3086	2.0000e-005	5.0000e-005	0.3237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	2.4700e-003	0.0363	1.1000e-004	0.0250	8.0000e-005	0.0251	6.4200e-003	7.0000e-005	6.4900e-003	0.0000	10.3298	10.3298	2.3000e-004	2.4000e-004	10.4075
Total	3.4100e-003	3.2200e-003	0.0365	1.1000e-004	0.0252	8.0000e-005	0.0253	6.4600e-003	7.0000e-005	6.5400e-003	0.0000	10.6384	10.6384	2.5000e-004	2.9000e-004	10.7311

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6000e-004	0.0000	2.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0654	0.5095	0.5594	1.5400e-003		0.0252	0.0252		0.0232	0.0232	0.0000	135.2939	135.2939	0.0438	0.0000	136.3879
Total	0.0654	0.5095	0.5594	1.5400e-003	2.6000e-004	0.0252	0.0255	4.0000e-005	0.0232	0.0232	0.0000	135.2939	135.2939	0.0438	0.0000	136.3879

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.3086	0.3086	2.0000e-005	5.0000e-005	0.3237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	2.4700e-003	0.0363	1.1000e-004	0.0250	8.0000e-005	0.0251	6.4200e-003	7.0000e-005	6.4900e-003	0.0000	10.3298	10.3298	2.3000e-004	2.4000e-004	10.4075
Total	3.4100e-003	3.2200e-003	0.0365	1.1000e-004	0.0252	8.0000e-005	0.0253	6.4600e-003	7.0000e-005	6.5400e-003	0.0000	10.6384	10.6384	2.5000e-004	2.9000e-004	10.7311

3.3 Pavement Removal - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1000e-004	0.0000	9.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1022	0.7958	0.8739	2.4100e-003		0.0394	0.0394		0.0362	0.0362	0.0000	211.3418	211.3418	0.0684	0.0000	213.0506
Total	0.1022	0.7958	0.8739	2.4100e-003	9.1000e-004	0.0394	0.0403	1.4000e-004	0.0362	0.0364	0.0000	211.3418	211.3418	0.0684	0.0000	213.0506

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.1600e-003	3.1000e-004	0.0000	2.6000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.4728	0.4728	3.0000e-005	8.0000e-005	0.4959
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-003	3.5100e-003	0.0533	1.7000e-004	0.0391	1.1000e-004	0.0392	0.0100	1.0000e-004	0.0101	0.0000	15.7738	15.7738	3.3000e-004	3.5000e-004	15.8878
Total	5.0200e-003	4.6700e-003	0.0536	1.7000e-004	0.0394	1.2000e-004	0.0395	0.0101	1.1000e-004	0.0102	0.0000	16.2466	16.2466	3.6000e-004	4.3000e-004	16.3837

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1000e-004	0.0000	4.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1022	0.7958	0.8739	2.4100e-003		0.0394	0.0394		0.0362	0.0362	0.0000	211.3415	211.3415	0.0684	0.0000	213.0503
Total	0.1022	0.7958	0.8739	2.4100e-003	4.1000e-004	0.0394	0.0398	6.0000e-005	0.0362	0.0363	0.0000	211.3415	211.3415	0.0684	0.0000	213.0503

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.1600e-003	3.1000e-004	0.0000	2.6000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.4728	0.4728	3.0000e-005	8.0000e-005	0.4959
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-003	3.5100e-003	0.0533	1.7000e-004	0.0391	1.1000e-004	0.0392	0.0100	1.0000e-004	0.0101	0.0000	15.7738	15.7738	3.3000e-004	3.5000e-004	15.8878
Total	5.0200e-003	4.6700e-003	0.0536	1.7000e-004	0.0394	1.2000e-004	0.0395	0.0101	1.1000e-004	0.0102	0.0000	16.2466	16.2466	3.6000e-004	4.3000e-004	16.3837

3.4 Pipeline Installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1522	0.2532	3.5000e-004		6.1900e-003	6.1900e-003		5.6900e-003	5.6900e-003	0.0000	31.1315	31.1315	0.0101	0.0000	31.3832
Total	0.0149	0.1522	0.2532	3.5000e-004		6.1900e-003	6.1900e-003		5.6900e-003	5.6900e-003	0.0000	31.1315	31.1315	0.0101	0.0000	31.3832

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	0.0114	3.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.2281	3.2281	7.0000e-005	8.0000e-005	3.2523
Total	1.0600e-003	7.7000e-004	0.0114	3.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.2281	3.2281	7.0000e-005	8.0000e-005	3.2523

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1522	0.2532	3.5000e-004		6.1900e-003	6.1900e-003		5.6900e-003	5.6900e-003	0.0000	31.1314	31.1314	0.0101	0.0000	31.3832
Total	0.0149	0.1522	0.2532	3.5000e-004		6.1900e-003	6.1900e-003		5.6900e-003	5.6900e-003	0.0000	31.1314	31.1314	0.0101	0.0000	31.3832

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3.4 Pipeline Installation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	0.0114	3.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.2281	3.2281	7.0000e-005	8.0000e-005	3.2523
Total	1.0600e-003	7.7000e-004	0.0114	3.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.2281	3.2281	7.0000e-005	8.0000e-005	3.2523

3.4 Pipeline Installation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0233	0.2377	0.3955	5.5000e-004		9.6600e-003	9.6600e-003		8.8900e-003	8.8900e-003	0.0000	48.6302	48.6302	0.0157	0.0000	49.0234
Total	0.0233	0.2377	0.3955	5.5000e-004		9.6600e-003	9.6600e-003		8.8900e-003	8.8900e-003	0.0000	48.6302	48.6302	0.0157	0.0000	49.0234

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1000e-003	0.0167	5.0000e-005	6.5500e-003	4.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.9293	4.9293	1.0000e-004	1.1000e-004	4.9649
Total	1.5600e-003	1.1000e-003	0.0167	5.0000e-005	6.5500e-003	4.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.9293	4.9293	1.0000e-004	1.1000e-004	4.9649

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0233	0.2377	0.3955	5.5000e-004		9.6600e-003	9.6600e-003		8.8900e-003	8.8900e-003	0.0000	48.6302	48.6302	0.0157	0.0000	49.0234
Total	0.0233	0.2377	0.3955	5.5000e-004		9.6600e-003	9.6600e-003		8.8900e-003	8.8900e-003	0.0000	48.6302	48.6302	0.0157	0.0000	49.0234

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1000e-003	0.0167	5.0000e-005	6.5500e-003	4.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.9293	4.9293	1.0000e-004	1.1000e-004	4.9649
Total	1.5600e-003	1.1000e-003	0.0167	5.0000e-005	6.5500e-003	4.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.9293	4.9293	1.0000e-004	1.1000e-004	4.9649

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0238	0.2315	0.3628	5.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	49.2082	49.2082	0.0159	0.0000	49.6060
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0238	0.2315	0.3628	5.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	49.2082	49.2082	0.0159	0.0000	49.6060

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037
Total	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0238	0.2315	0.3628	5.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	49.2081	49.2081	0.0159	0.0000	49.6060
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0238	0.2315	0.3628	5.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	49.2081	49.2081	0.0159	0.0000	49.6060

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037
Total	1.7000e-003	1.2400e-003	0.0182	5.0000e-005	6.7100e-003	4.0000e-005	6.7400e-003	1.7800e-003	3.0000e-005	1.8200e-003	0.0000	5.1649	5.1649	1.2000e-004	1.2000e-004	5.2037

3.5 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.3616	0.5667	8.8000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	76.8677	76.8677	0.0249	0.0000	77.4892
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0371	0.3616	0.5667	8.8000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	76.8677	76.8677	0.0249	0.0000	77.4892

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439
Total	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.3616	0.5667	8.8000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	76.8676	76.8676	0.0249	0.0000	77.4891
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0371	0.3616	0.5667	8.8000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	76.8676	76.8676	0.0249	0.0000	77.4891

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439
Total	2.5000e-003	1.7500e-003	0.0267	8.0000e-005	0.0105	6.0000e-005	0.0105	2.7800e-003	5.0000e-005	2.8300e-003	0.0000	7.8869	7.8869	1.6000e-004	1.8000e-004	7.9439

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318 A61

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1427					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1427					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1427	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Haynes Generating Station - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Haynes Generating Station
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	39,500.00	User Defined Unit	0.91	39,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Data Provided by the Engineer
 Construction Phase - Construction phases would occur at the same time, progress along the alignment.
 Construction Off-road Equipment Mitigation -
 Off-road Equipment - construction equipment provided by the engineer
 Off-road Equipment - Construction equipment provided by the engineer
 Off-road Equipment -
 Off-road Equipment - Construction equipment provided by the engineer
 Off-road Equipment - Construction equipment provided by the engineer
 Grading - Assume paving material haul truck capacity is 14 tons
 Assume total acres graded is 1 acre
 Demolition -

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - # Trips Vendor (/day) TBD

Architectural Coating - No Architectural Coatings would apply

Area Coating - No Area Architectural Coatings would apply

Landscape Equipment - No Landscape Equipments would use

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	19750	0
tblAreaCoating	Area_Nonresidential_Interior	59250	0
tblConstructionPhase	NumDays	1.00	392.00
tblConstructionPhase	NumDays	5.00	392.00
tblConstructionPhase	NumDays	10.00	392.00
tblConstructionPhase	PhaseEndDate	11/5/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/13/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	11/12/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/16/2025	12/1/2026
tblConstructionPhase	PhaseStartDate	6/19/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	11/6/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblGrading	AcresOfGrading	196.00	1.00
tblGrading	MaterialExported	0.00	140.00
tblGrading	MaterialImported	0.00	1,750.00
tblGrading	MaterialSiltContent	6.90	4.30
tblGrading	MeanVehicleSpeed	7.10	40.00
tblLandscapeEquipment	NumberSummerDays	250	0
tblLandUse	LandUseSquareFeet	0.00	39,500.00
tblLandUse	LotAcreage	0.00	0.91
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	9.00

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	HorsePower	172.00	81.00
tblOffRoadEquipment	HorsePower	158.00	89.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.42	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.0851	17.9050	21.8336	0.0522	0.6735	0.7680	1.4415	0.1739	0.7066	0.8805	0.0000	5,080.529 4	5,080.529 4	1.5260	0.0128	5,122.504 4
2026	2.0790	17.8982	21.7633	0.0521	0.6735	0.7679	1.4414	0.1739	0.7065	0.8804	0.0000	5,071.815 5	5,071.815 5	1.5252	0.0123	5,113.615 7
Maximum	2.0851	17.9050	21.8336	0.0522	0.6735	0.7680	1.4415	0.1739	0.7066	0.8805	0.0000	5,080.529 4	5,080.529 4	1.5260	0.0128	5,122.504 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.0851	17.9050	21.8336	0.0522	0.6219	0.7680	1.3899	0.1611	0.7066	0.8678	0.0000	5,080.529 4	5,080.529 4	1.5260	0.0128	5,122.504 4
2026	2.0790	17.8982	21.7633	0.0521	0.6219	0.7679	1.3898	0.1611	0.7065	0.8677	0.0000	5,071.815 5	5,071.815 5	1.5252	0.0123	5,113.615 7
Maximum	2.0851	17.9050	21.8336	0.0522	0.6219	0.7680	1.3899	0.1611	0.7066	0.8678	0.0000	5,080.529 4	5,080.529 4	1.5260	0.0128	5,122.504 4

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	7.67	0.00	3.58	7.35	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1525	0.0365	4.0225	3.0000e-004	0.0000	0.0143	0.0143	0.0000	0.0143	0.0143		8.6447	8.6447	0.0225	0.0000	9.2068

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1525	0.0365	4.0225	3.0000e-004	0.0000	0.0143	0.0143	0.0000	0.0143	0.0143		8.6447	8.6447	0.0225	0.0000	9.2068

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2025	12/1/2026	5	392	
2	Pavement Removal	Demolition	6/1/2025	12/1/2026	5	392	
3	Pipeline Installation	Trenching	6/1/2025	12/1/2026	5	392	
4	Paving	Paving	6/1/2025	12/1/2026	5	392	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	187	0.41
Paving	Off-Highway Trucks	1	8.00	9	0.56
Pavement Removal	Other Construction Equipment	1	8.00	81	0.73
Pipeline Installation	Cranes	0	8.00	231	0.29
Pipeline Installation	Excavators	1	8.00	89	0.20
Pavement Removal	Concrete/Industrial Saws	0	8.00	81	0.73
Pavement Removal	Excavators	1	8.00	187	0.41

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Pavement Removal	Off-Highway Trucks	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pavement Removal	Rubber Tired Dozers	0	8.00	247	0.40
Pavement Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	187.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0863	0.0000	0.0863	0.0221	0.0000	0.0221			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914		1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0863	0.2081	0.2944	0.0221	0.1914	0.2135		1,581.3039	1,581.3039	0.5114		1,594.0895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0200e-003	0.0620	0.0171	2.7000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.6850	29.6850	1.7300e-003	4.7200e-003	31.1340
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169
Total	0.0234	0.0763	0.2686	1.0100e-003	0.0978	8.9000e-004	0.0987	0.0260	8.3000e-004	0.0268		107.0828	107.0828	3.3800e-003	6.3200e-003	109.0509

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0388	0.0000	0.0388	9.9300e-003	0.0000	9.9300e-003			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0388	0.2081	0.2469	9.9300e-003	0.1914	0.2014	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0200e-003	0.0620	0.0171	2.7000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.6850	29.6850	1.7300e-003	4.7200e-003	31.1340
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169
Total	0.0234	0.0763	0.2686	1.0100e-003	0.0978	8.9000e-004	0.0987	0.0260	8.3000e-004	0.0268		107.0828	107.0828	3.3800e-003	6.3200e-003	109.0509

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0863	0.0000	0.0863	0.0221	0.0000	0.0221			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914		1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0863	0.2081	0.2944	0.0221	0.1914	0.2135		1,581.3039	1,581.3039	0.5114		1,594.0895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0100e-003	0.0614	0.0173	2.6000e-004	8.3500e-003	3.9000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.1152	29.1152	1.7400e-003	4.6300e-003	30.5382
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431
Total	0.0220	0.0744	0.2536	9.8000e-004	0.0978	8.6000e-004	0.0986	0.0260	8.1000e-004	0.0268		104.7706	104.7706	3.2300e-003	6.1400e-003	106.6813

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0388	0.0000	0.0388	9.9300e-003	0.0000	9.9300e-003			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0388	0.2081	0.2469	9.9300e-003	0.1914	0.2014	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0100e-003	0.0614	0.0173	2.6000e-004	8.3500e-003	3.9000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.1152	29.1152	1.7400e-003	4.6300e-003	30.5382
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431
Total	0.0220	0.0744	0.2536	9.8000e-004	0.0978	8.6000e-004	0.0986	0.0260	8.1000e-004	0.0268		104.7706	104.7706	3.2300e-003	6.1400e-003	106.6813

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6400e-003	0.0000	7.6400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032		1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	7.6400e-003	0.3296	0.3372	1.1600e-003	0.3032	0.3044		1,949.4930	1,949.4930	0.6305		1,965.2557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	9.2900e-003	2.5700e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.4448	4.4448	2.6000e-004	7.1000e-004	4.6618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0447	0.0287	0.5030	1.4900e-003	0.3343	9.9000e-004	0.3353	0.0856	9.1000e-004	0.0865		154.7956	154.7956	3.2900e-003	3.2100e-003	155.8337
Total	0.0448	0.0380	0.5055	1.5300e-003	0.3365	1.0500e-003	0.3376	0.0862	9.7000e-004	0.0871		159.2404	159.2404	3.5500e-003	3.9200e-003	160.4955

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.4400e-003	0.0000	3.4400e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	3.4400e-003	0.3296	0.3330	5.2000e-004	0.3032	0.3038	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	9.2900e-003	2.5700e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.4448	4.4448	2.6000e-004	7.1000e-004	4.6618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0447	0.0287	0.5030	1.4900e-003	0.3343	9.9000e-004	0.3353	0.0856	9.1000e-004	0.0865		154.7956	154.7956	3.2900e-003	3.2100e-003	155.8337
Total	0.0448	0.0380	0.5055	1.5300e-003	0.3365	1.0500e-003	0.3376	0.0862	9.7000e-004	0.0871		159.2404	159.2404	3.5500e-003	3.9200e-003	160.4955

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6400e-003	0.0000	7.6400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032		1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	7.6400e-003	0.3296	0.3372	1.1600e-003	0.3032	0.3044		1,949.4930	1,949.4930	0.6305		1,965.2557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	9.1900e-003	2.6000e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.3595	4.3595	2.6000e-004	6.9000e-004	4.5726
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0420	0.0260	0.4725	1.4400e-003	0.3343	9.4000e-004	0.3353	0.0856	8.6000e-004	0.0865		151.3107	151.3107	2.9900e-003	3.0200e-003	152.2862
Total	0.0422	0.0352	0.4751	1.4800e-003	0.3365	1.0000e-003	0.3375	0.0862	9.2000e-004	0.0871		155.6702	155.6702	3.2500e-003	3.7100e-003	156.8588

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.4400e-003	0.0000	3.4400e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	3.4400e-003	0.3296	0.3330	5.2000e-004	0.3032	0.3038	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	9.1900e-003	2.6000e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.3595	4.3595	2.6000e-004	6.9000e-004	4.5726
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0420	0.0260	0.4725	1.4400e-003	0.3343	9.4000e-004	0.3353	0.0856	8.6000e-004	0.0865		151.3107	151.3107	2.9900e-003	3.0200e-003	152.2862
Total	0.0422	0.0352	0.4751	1.4800e-003	0.3365	1.0000e-003	0.3375	0.0862	9.2000e-004	0.0871		155.6702	155.6702	3.2500e-003	3.7100e-003	156.8588

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0140	8.9600e-003	0.1572	4.6000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		48.3736	48.3736	1.0300e-003	1.0000e-003	48.6980
Total	0.0140	8.9600e-003	0.1572	4.6000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		48.3736	48.3736	1.0300e-003	1.0000e-003	48.6980

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0140	8.9600e-003	0.1572	4.6000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		48.3736	48.3736	1.0300e-003	1.0000e-003	48.6980
Total	0.0140	8.9600e-003	0.1572	4.6000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		48.3736	48.3736	1.0300e-003	1.0000e-003	48.6980

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	8.1300e-003	0.1477	4.5000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2846	47.2846	9.3000e-004	9.4000e-004	47.5895
Total	0.0131	8.1300e-003	0.1477	4.5000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2846	47.2846	9.3000e-004	9.4000e-004	47.5895

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	8.1300e-003	0.1477	4.5000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2846	47.2846	9.3000e-004	9.4000e-004	47.5895
Total	0.0131	8.1300e-003	0.1477	4.5000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2846	47.2846	9.3000e-004	9.4000e-004	47.5895

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169
Total	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169
Total	0.0223	0.0143	0.2515	7.4000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		77.3978	77.3978	1.6500e-003	1.6000e-003	77.9169

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431
Total	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431
Total	0.0210	0.0130	0.2362	7.2000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		75.6554	75.6554	1.4900e-003	1.5100e-003	76.1431

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

No Hearths Installed

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Unmitigated	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.3704	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Total	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.3704	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Total	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

7.0 Water Detail

7.1 Mitigation Measures Water

Haynes Generating Station - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Haynes Generating Station
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	39,500.00	User Defined Unit	0.91	39,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Data Provided by the Engineer

Construction Phase - Construction phases would occur at the same time, progress along the alignment.

Construction Off-road Equipment Mitigation -

Off-road Equipment - construction equipment provided by the engineer

Off-road Equipment - Construction equipment provided by the engineer

Off-road Equipment -

Off-road Equipment - Construction equipment provided by the engineer

Off-road Equipment - Construction equipment provided by the engineer

Grading - Assume paving material haul truck capacity is 14 tons

Assume total acres graded is 1 acre

Demolition -

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - # Trips Vendor (/day) TBD

Architectural Coating - No Architectural Coatings would apply

Area Coating - No Area Architectural Coatings would apply

Landscape Equipment - No Landscape Equipments would use

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	19750	0
tblAreaCoating	Area_Nonresidential_Interior	59250	0
tblConstructionPhase	NumDays	1.00	392.00
tblConstructionPhase	NumDays	5.00	392.00
tblConstructionPhase	NumDays	10.00	392.00
tblConstructionPhase	PhaseEndDate	11/5/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/13/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	11/12/2025	12/1/2026
tblConstructionPhase	PhaseEndDate	6/16/2025	12/1/2026
tblConstructionPhase	PhaseStartDate	6/19/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	11/6/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblGrading	AcresOfGrading	196.00	1.00
tblGrading	MaterialExported	0.00	140.00
tblGrading	MaterialImported	0.00	1,750.00
tblGrading	MaterialSiltContent	6.90	4.30
tblGrading	MeanVehicleSpeed	7.10	40.00
tblLandscapeEquipment	NumberSummerDays	250	0
tblLandUse	LandUseSquareFeet	0.00	39,500.00
tblLandUse	LotAcreage	0.00	0.91
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	9.00

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	HorsePower	172.00	81.00
tblOffRoadEquipment	HorsePower	158.00	89.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	402.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.56
tblOffRoadEquipment	LoadFactor	0.42	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.0935	17.9151	21.7416	0.0520	0.6735	0.7680	1.4415	0.1739	0.7066	0.8805	0.0000	5,061.7659	5,061.7659	1.5261	0.0133	5,103.8948
2026	2.0872	17.9076	21.6775	0.0519	0.6735	0.7679	1.4414	0.1739	0.7065	0.8804	0.0000	5,053.5045	5,053.5045	1.5254	0.0128	5,095.4494
Maximum	2.0935	17.9151	21.7416	0.0520	0.6735	0.7680	1.4415	0.1739	0.7066	0.8805	0.0000	5,061.7659	5,061.7659	1.5261	0.0133	5,103.8948

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.0935	17.9151	21.7416	0.0520	0.6219	0.7680	1.3899	0.1611	0.7066	0.8678	0.0000	5,061.7659	5,061.7659	1.5261	0.0133	5,103.8948
2026	2.0872	17.9076	21.6775	0.0519	0.6219	0.7679	1.3898	0.1611	0.7065	0.8677	0.0000	5,053.5045	5,053.5045	1.5254	0.0128	5,095.4494
Maximum	2.0935	17.9151	21.7416	0.0520	0.6219	0.7680	1.3899	0.1611	0.7066	0.8678	0.0000	5,061.7659	5,061.7659	1.5261	0.0133	5,103.8948

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	7.67	0.00	3.58	7.35	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1525	0.0365	4.0225	3.0000e-004	0.0000	0.0143	0.0143	0.0000	0.0143	0.0143		8.6447	8.6447	0.0225	0.0000	9.2068

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1525	0.0365	4.0225	3.0000e-004	0.0000	0.0143	0.0143	0.0000	0.0143	0.0143		8.6447	8.6447	0.0225	0.0000	9.2068

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2025	12/1/2026	5	392	
2	Pavement Removal	Demolition	6/1/2025	12/1/2026	5	392	
3	Pipeline Installation	Trenching	6/1/2025	12/1/2026	5	392	
4	Paving	Paving	6/1/2025	12/1/2026	5	392	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	187	0.41
Paving	Off-Highway Trucks	1	8.00	9	0.56
Pavement Removal	Other Construction Equipment	1	8.00	81	0.73
Pipeline Installation	Cranes	0	8.00	231	0.29
Pipeline Installation	Excavators	1	8.00	89	0.20
Pavement Removal	Concrete/Industrial Saws	0	8.00	81	0.73
Pavement Removal	Excavators	1	8.00	187	0.41

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Pavement Removal	Off-Highway Trucks	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pavement Removal	Rubber Tired Dozers	0	8.00	247	0.40
Pavement Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pavement Removal	3	8.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	187.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0863	0.0000	0.0863	0.0221	0.0000	0.0221			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914		1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0863	0.2081	0.2944	0.0221	0.1914	0.2135		1,581.3039	1,581.3039	0.5114		1,594.0895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0648	0.0174	2.7000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.7171	29.7171	1.7200e-003	4.7200e-003	31.1676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848
Total	0.0251	0.0806	0.2489	9.7000e-004	0.0978	8.9000e-004	0.0987	0.0260	8.3000e-004	0.0268		103.0500	103.0500	3.3900e-003	6.4300e-003	105.0524

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0388	0.0000	0.0388	9.9300e-003	0.0000	9.9300e-003			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0388	0.2081	0.2469	9.9300e-003	0.1914	0.2014	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0648	0.0174	2.7000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.7171	29.7171	1.7200e-003	4.7200e-003	31.1676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848
Total	0.0251	0.0806	0.2489	9.7000e-004	0.0978	8.9000e-004	0.0987	0.0260	8.3000e-004	0.0268		103.0500	103.0500	3.3900e-003	6.4300e-003	105.0524

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0863	0.0000	0.0863	0.0221	0.0000	0.0221			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914		1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0863	0.2081	0.2944	0.0221	0.1914	0.2135		1,581.3039	1,581.3039	0.5114		1,594.0895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.4000e-004	0.0641	0.0176	2.6000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.1471	29.1471	1.7400e-003	4.6300e-003	30.5715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070
Total	0.0237	0.0785	0.2352	9.4000e-004	0.0978	8.7000e-004	0.0986	0.0260	8.1000e-004	0.0268		100.8354	100.8354	3.2600e-003	6.2400e-003	102.7785

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0388	0.0000	0.0388	9.9300e-003	0.0000	9.9300e-003			0.0000			0.0000
Off-Road	0.6200	6.0928	5.2860	0.0163		0.2081	0.2081		0.1914	0.1914	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895
Total	0.6200	6.0928	5.2860	0.0163	0.0388	0.2081	0.2469	9.9300e-003	0.1914	0.2014	0.0000	1,581.3039	1,581.3039	0.5114		1,594.0895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.4000e-004	0.0641	0.0176	2.6000e-004	8.3500e-003	4.0000e-004	8.7500e-003	2.2900e-003	3.8000e-004	2.6700e-003		29.1471	29.1471	1.7400e-003	4.6300e-003	30.5715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070
Total	0.0237	0.0785	0.2352	9.4000e-004	0.0978	8.7000e-004	0.0986	0.0260	8.1000e-004	0.0268		100.8354	100.8354	3.2600e-003	6.2400e-003	102.7785

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6400e-003	0.0000	7.6400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032		1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	7.6400e-003	0.3296	0.3372	1.1600e-003	0.3032	0.3044		1,949.4930	1,949.4930	0.6305		1,965.2557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4000e-004	9.7000e-003	2.6000e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.4496	4.4496	2.6000e-004	7.1000e-004	4.6668
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0483	0.0316	0.4631	1.4100e-003	0.3343	9.9000e-004	0.3353	0.0856	9.1000e-004	0.0865		146.6657	146.6657	3.3400e-003	3.4200e-003	147.7696
Total	0.0485	0.0413	0.4657	1.4500e-003	0.3365	1.0500e-003	0.3376	0.0862	9.7000e-004	0.0871		151.1153	151.1153	3.6000e-003	4.1300e-003	152.4365

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.4400e-003	0.0000	3.4400e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	3.4400e-003	0.3296	0.3330	5.2000e-004	0.3032	0.3038	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4000e-004	9.7000e-003	2.6000e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.4496	4.4496	2.6000e-004	7.1000e-004	4.6668
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0483	0.0316	0.4631	1.4100e-003	0.3343	9.9000e-004	0.3353	0.0856	9.1000e-004	0.0865		146.6657	146.6657	3.3400e-003	3.4200e-003	147.7696
Total	0.0485	0.0413	0.4657	1.4500e-003	0.3365	1.0500e-003	0.3376	0.0862	9.7000e-004	0.0871		151.1153	151.1153	3.6000e-003	4.1300e-003	152.4365

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6400e-003	0.0000	7.6400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032		1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	7.6400e-003	0.3296	0.3372	1.1600e-003	0.3032	0.3044		1,949.4930	1,949.4930	0.6305		1,965.2557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4000e-004	9.6000e-003	2.6300e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.3643	4.3643	2.6000e-004	6.9000e-004	4.5776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0287	0.4353	1.3600e-003	0.3343	9.4000e-004	0.3353	0.0856	8.6000e-004	0.0865		143.3766	143.3766	3.0400e-003	3.2300e-003	144.4139
Total	0.0457	0.0383	0.4379	1.4000e-003	0.3365	1.0000e-003	0.3375	0.0862	9.2000e-004	0.0871		147.7409	147.7409	3.3000e-003	3.9200e-003	148.9915

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Pavement Removal - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.4400e-003	0.0000	3.4400e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	0.8548	6.6597	7.3130	0.0201		0.3296	0.3296		0.3032	0.3032	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557
Total	0.8548	6.6597	7.3130	0.0201	3.4400e-003	0.3296	0.3330	5.2000e-004	0.3032	0.3038	0.0000	1,949.4930	1,949.4930	0.6305		1,965.2557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4000e-004	9.6000e-003	2.6300e-003	4.0000e-005	2.1900e-003	6.0000e-005	2.2500e-003	5.7000e-004	6.0000e-005	6.3000e-004		4.3643	4.3643	2.6000e-004	6.9000e-004	4.5776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0287	0.4353	1.3600e-003	0.3343	9.4000e-004	0.3353	0.0856	8.6000e-004	0.0865		143.3766	143.3766	3.0400e-003	3.2300e-003	144.4139
Total	0.0457	0.0383	0.4379	1.4000e-003	0.3365	1.0000e-003	0.3375	0.0862	9.2000e-004	0.0871		147.7409	147.7409	3.3000e-003	3.9200e-003	148.9915

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.8900e-003	0.1447	4.4000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.8330	45.8330	1.0500e-003	1.0700e-003	46.1780
Total	0.0151	9.8900e-003	0.1447	4.4000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.8330	45.8330	1.0500e-003	1.0700e-003	46.1780

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.8900e-003	0.1447	4.4000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.8330	45.8330	1.0500e-003	1.0700e-003	46.1780
Total	0.0151	9.8900e-003	0.1447	4.4000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.8330	45.8330	1.0500e-003	1.0700e-003	46.1780

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744		448.5826	448.5826	0.1451		452.2097

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	8.9800e-003	0.1360	4.3000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		44.8052	44.8052	9.5000e-004	1.0100e-003	45.1294
Total	0.0143	8.9800e-003	0.1360	4.3000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		44.8052	44.8052	9.5000e-004	1.0100e-003	45.1294

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Pipeline Installation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097
Total	0.1951	1.9889	3.3092	4.6300e-003		0.0809	0.0809		0.0744	0.0744	0.0000	448.5826	448.5826	0.1451		452.2097

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	8.9800e-003	0.1360	4.3000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		44.8052	44.8052	9.5000e-004	1.0100e-003	45.1294
Total	0.0143	8.9800e-003	0.1360	4.3000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		44.8052	44.8052	9.5000e-004	1.0100e-003	45.1294

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848
Total	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848
Total	0.0242	0.0158	0.2315	7.0000e-004	0.0894	4.9000e-004	0.0899	0.0237	4.5000e-004	0.0242		73.3329	73.3329	1.6700e-003	1.7100e-003	73.8848

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350		709.0552	709.0552	0.2293		714.7883

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070
Total	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3108	3.0261	4.7425	7.3300e-003		0.1467	0.1467		0.1350	0.1350	0.0000	709.0552	709.0552	0.2293		714.7883

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070
Total	0.0228	0.0144	0.2176	6.8000e-004	0.0894	4.7000e-004	0.0899	0.0237	4.3000e-004	0.0242		71.6883	71.6883	1.5200e-003	1.6100e-003	72.2070

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

No Hearths Installed

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Unmitigated	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.3704	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Total	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.3704	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068
Total	1.1525	0.0365	4.0225	3.0000e-004		0.0143	0.0143		0.0143	0.0143		8.6447	8.6447	0.0225		9.2068

7.0 Water Detail

7.1 Mitigation Measures Water

Haynes Generating Station - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

APPENDIX B
Information, Planning, and Consultation (IPaC) System Search Results
U.S. Fish and Wildlife Service
December 4, 2023



United States Department of the Interior

FISH AND WILDLIFE SERVICE
 Carlsbad Fish And Wildlife Office
 2177 Salk Avenue - Suite 250
 Carlsbad, CA 92008-7385
 Phone: (760) 431-9440 Fax: (760) 431-5901



In Reply Refer To: December 04, 2023
 Project Code: 2023-0021262
 Project Name: LB Water Department's LA Water and Power Haynes Generating Station Recycled Water Pipeline Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see [Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service \(fws.gov\)](https://www.fws.gov/partner/council-conservation-migratory-birds).

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office

2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385
(760) 431-9440

PROJECT SUMMARY

Project Code: 2023-0021262
 Project Name: LB Water Department's LA Water and Power Haynes Generating Station Recycled Water Pipeline Project
 Project Type: Water Supply Pipeline - New Constr - Below Ground
 Project Description: Long Beach Water Department (LBWD) is planning to install a recycled water main to serve Los Angeles Department of Water and Power's Haynes Generating Station located in the Cities of Long Beach and Seal Beach, California. The project proposes to install a 24-inch pipeline connection to the existing LBWD 21-inch recycled water pipeline at Atherton Street and Studebaker Road in Long Beach, CA. The total length of the recycled water alignment is approximately 7,675 feet. Construction would occur within previously disturbed areas currently covered by pavement (asphalt) or landscaping. Installation would be conducted via the cut and cover method, with jack and bore occurring beneath the State Route 22 freeway. The pipeline would be hung from the bridge over the San Gabriel River and would not require work within jurisdictional Waters of the US. Construction would end within the Haynes Generating Station located in Seal Beach, CA. Construction is anticipated to occur within Q1 and Q2 of 2023. The project is not located within the Coastal Zone.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@33.781051500000004,-118.10265920897018,14z>



Counties: Los Angeles and Orange counties, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Pacific Pocket Mouse <i>Perognathus longimembris pacificus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8080	Endangered

BIRDS

NAME	STATUS
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8104	Endangered
Coastal California Gnatcatcher <i>Polioptila californica californica</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8178	Threatened
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6749	Endangered
Western Snowy Plover <i>Charadrius nivosus nivosus</i> Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8035	Threatened

REPTILES

NAME	STATUS
Southwestern Pond Turtle <i>Actinemys pallida</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4768	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

FLOWERING PLANTS

NAME	STATUS
Salt Marsh Bird's-beak <i>Cordylanthus maritimus ssp. maritimus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6447	Endangered
Ventura Marsh Milk-vetch <i>Astragalus pycnostachyus var. lanosissimus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1160	Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: AZTEC Engineering Group, Inc.

Name: Nicholas Vandehei

Address: 501 N. 44th Street, Suite 300

City: Phoenix

State: AZ

Zip: 85008

Email: nvandehei@aztec.us

Phone: 4804404108

APPENDIX C

California Natural Diversity Database Search Results

California Department of Fish and Wildlife

December 6, 2023

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE RareFind

Query Summary:

Quad IS (Los Alamitos (3311871))

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Spea hammondii	western spadefoot	Amphibians	AAABF02020	1444	2	None	None	G2G3	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened	Cismontane woodland, Coastal scrub, Valley & foothill grassland, Vernal pool, Wetland
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	957	1	None	Threatened	G1G2	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Wetland
Athene cunicularia	burrowing owl	Birds	ABNSB10010	2011	2	None	None	G4	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Buteo regalis	ferruginous hawk	Birds	ABNKC19120	107	1	None	None	G4	S3S4	null	CDFW_WL-Watch List, IUCN_LC-Least Concern	Great Basin grassland, Great Basin scrub, Pinon & juniper woodlands, Valley & foothill grassland
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2561	1	None	Threatened	G5	S4	null	BLM_S-Sensitive, IUCN_LC-Least Concern	Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	ABNRB02022	165	1	Threatened	Endangered	G5T2T3	S1	null	BLM_S-Sensitive, USFS_S-Sensitive	Riparian forest
Passerculus sandwichensis beldingi	Belding's savannah sparrow	Birds	ABPBX99015	39	1	None	Endangered	G5T3	S3	null	USFWS_BCC-Birds of Conservation Concern	Marsh & swamp, Wetland
Sternula antillarum browni	California least tern	Birds	ABNNM08103	75	3	Endangered	Endangered	G4T2T3Q	S2	null	CDFW_FP-Fully Protected	Alkali playa, Wetland
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW01114	505	1	Endangered	Endangered	G5T2	S3	null	null	Riparian forest, Riparian scrub, Riparian woodland
Astragalus hornii var. hornii	Horn's milk-vetch	Dicots	PDFAB0F421	28	1	None	None	GUT1	S1	1B.1	BLM_S-Sensitive	Alkali playa, Meadow & seep, Wetland
Atriplex parishii	Parish's brittle-scale	Dicots	PDCHE041D0	15	1	None	None	G1G2	S1	1B.1	SB_CRES-San Diego Zoo CRES Native Gene Seed Bank, USFS_S-Sensitive	Alkali playa, Chenopod scrub, Meadow & seep, Vernal pool, Wetland
Calystegia felix	lucky morning-glory	Dicots	PDCON040P0	10	1	None	None	G1Q	S1	1B.1	null	Meadow & seep, Riparian scrub
Centromadia parryi ssp. australis	southern tarplant	Dicots	PDAST4R0P4	94	8	None	None	G3T2	S2	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank,	Marsh & swamp, Salt marsh, Valley & foothill grassland, Vernal pool, Wetland

												SB_SBBG-Santa Barbara Botanic Garden	
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Dicots	PDSCR0J0C2	26	2	Endangered	Endangered	G4?T1	S1	1B.2	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank, SB_SBBG-Santa Barbara Botanic Garden	Coastal dunes, Marsh & swamp, Salt marsh, Wetland	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Dicots	PDAST5L0A1	111	5	None	None	G4T2	S2	1B.1	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Alkali playa, Marsh & swamp, Salt marsh, Vernal pool, Wetland	
Nama stenocarpa	mud nama	Dicots	PDHYD0A0H0	22	1	None	None	G4G5	S1S2	2B.2	null	Marsh & swamp, Wetland	
Nemacaulis denudata var. denudata	coast woolly-heads	Dicots	PDPGN0G011	42	1	None	None	G3G4T2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank	Coastal dunes	
Phacelia stellaris	Brand's star phacelia	Dicots	PDHYD0C510	15	1	None	None	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Coastal dunes, Coastal scrub	
Sidalcea neomexicana	salt spring checkerbloom	Dicots	PDMAL110J0	30	2	None	None	G4	S2	2B.2	USFS_S-Sensitive	Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland	
Suaeda esteroa	estuary seablite	Dicots	PDCHE0P0D0	39	1	None	None	G3	S2	1B.2	null	Marsh & swamp, Salt marsh, Wetland	
Symphotrichum defoliatum	San Bernardino aster	Dicots	PDASTE80C0	102	3	None	None	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank, USFS_S-Sensitive	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Valley & foothill grassland	
Bombus crotchii	Crotch bumble bee	Insects	IIHYM24480	437	1	None	Candidate Endangered	G2	S2	null	IUCN_EN-Endangered	null	
Bombus pensylvanicus	American bumble bee	Insects	IIHYM24260	285	3	None	None	G3G4	S2	null	IUCN_VU-Vulnerable	Coastal prairie, Great Basin grassland, Valley & foothill grassland	
Cicindela hirticollis gravida	sandy beach tiger beetle	Insects	IICOL02101	34	2	None	None	G5T2	S2	null	null	Coastal dunes	
Cicindela latesignata	western beach tiger beetle	Insects	IICOL02110	27	3	None	None	G2G3	S1	null	null	Estuary, Mud shore/flats, Salt marsh, Sand shore	
Cicindela senilis frosti	senile tiger beetle	Insects	IICOL02121	9	1	None	None	G2G3T1T3	S1	null	null	Mud shore/flats, Wetland	
Danaus plexippus plexippus pop. 1	monarch - California overwintering population	Insects	IILEPP2012	396	2	Candidate	None	G4T1T2Q	S2	null	IUCN_EN-Endangered, USFS_S-Sensitive	Closed-cone coniferous forest	
Habroscelimorpha gabbii	western tidal-flat tiger beetle	Insects	IICOL02080	9	2	None	None	G2G4	S1	null	null	Estuary, Mud shore/flats	
Eumops perotis californicus	western mastiff bat	Mammals	AMACD02011	296	1	None	None	G4G5T4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern	Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland	
Lasionycteris noctivagans	silver-haired bat	Mammals	AMACC02010	139	1	None	None	G3G4	S3S4	null	IUCN_LC-Least Concern	Lower montane coniferous	

												forest, Oldgrowth, Riparian forest
Lasiurus xanthinus	western yellow bat	Mammals	AMACC05070	58	1	None	None	G4G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Desert wash
Microtus californicus stephensi	south coast marsh vole	Mammals	AMAFF11035	7	1	None	None	G5T2T3	S2	null	CDFW_SSC-Species of Special Concern	null
Sorex ornatus salicornicus	southern California saltmarsh shrew	Mammals	AMABA01104	4	1	None	None	G5T1?	S1	null	CDFW_SSC-Species of Special Concern	Salt marsh
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	Marsh	CTT52120CA	24	1	None	None	G2	S2.1	null	null	Marsh & swamp, Wetland
Orcuttia californica	California Orcutt grass	Monocots	PMPOA4G010	39	1	Endangered	Endangered	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank	Vernal pool, Wetland
Sagittaria sanfordii	Sanford's arrowhead	Monocots	PMALI040Q0	143	1	None	None	G3	S3	1B.2	BLM_S-Sensitive	Marsh & swamp, Wetland
Anniella stebbinsi	Southern California legless lizard	Reptiles	ARACC01060	427	1	None	None	G3	S3	null	CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Coastal dunes, Coastal scrub
Chelonia mydas	green turtle	Reptiles	ARAAA02010	2	1	Threatened	None	G3	S1	null	IUCN_EN-Endangered	Marine bay
Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1522	3	Proposed Threatened	None	G3G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive	Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	784	4	None	None	G4	S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon & juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland

APPENDIX D

Cultural Resources

LADWP Haynes Generating Station Recycled Water Pipeline Project

May 12, 2023

CONFIDENTIAL – NOT FOR PUBLIC DISTRIBUTION

This appendix contains sensitive information about the location of cultural resources.
This information should not be distributed to the general public in order to protect these properties.

APPENDIX E
ERIS Database Report
LADWP Haynes Generating Station Recycled Water Pipeline Project
December 8, 2022



DATABASE REPORT

Project Property: *Haynes Sewer Line
n/a
Seal Beach CA*

Project No: *0CAENS2205*

Report Type: *Quote - Custom Radius - Linear Reports*

Order No: *22120501310*

Requested by: *AZTEC Engineering Group, Inc.*

Date Completed: *December 8, 2022*

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Executive Summary

Property Information:

Project Property: *Haynes Sewer Line
n/a Seal Beach CA*

Project No: *OCAENS2205*

Coordinates:

Latitude: *33.78117881*
Longitude: *-118.09942673*
UTM Northing: *3,738,437.01*
UTM Easting: *398,208.32*
UTM Zone: *11S*

Elevation: *14 FT*

Order Information:

Order No: *22120501310*
Date Requested: *December 5, 2022*
Requested by: *AZTEC Engineering Group, Inc.*
Report Type: *Quote - Custom Radius - Linear Reports*

Historicals/Products:

ERIS Xplorer [ERIS Xplorer](#)
Excel Add-On *Excel Add-On*

Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.250mi</i>	<i>Total</i>
<u>Standard Environmental Records</u>				
Federal				
DOE FUSRAP	Y	0	0	0
NPL	Y	0	0	0
PROPOSED NPL	Y	0	0	0
DELETED NPL	Y	0	0	0
SEMS	Y	0	0	0
SEMS ARCHIVE	Y	0	0	0
ODI	Y	0	0	0
CERCLIS	Y	0	0	0
IODI	Y	0	0	0
CERCLIS NFRAP	Y	0	0	0
CERCLIS LIENS	Y	0	0	0
RCRA CORRACTS	Y	0	0	0
RCRA TSD	Y	0	0	0
RCRA LQG	Y	0	2	2
RCRA SQG	Y	0	1	1
RCRA VSQG	Y	0	0	0
RCRA NON GEN	Y	0	52	52
RCRA CONTROLS	Y	0	0	0
FED ENG	Y	0	0	0
FED INST	Y	0	0	0
LUCIS	Y	0	0	0
NPL IC	Y	0	0	0
ERNS 1982 TO 1986	Y	0	0	0
ERNS 1987 TO 1989	Y	0	0	0
ERNS	Y	0	2	2
FED BROWNFIELDS	Y	0	0	0
FEMA UST	Y	0	0	0

Database	Searched	Project Property	Within 0.250mi	Total
FRP	Y	0	0	0
DELISTED FRP	Y	0	0	0
HIST GAS STATIONS	Y	0	0	0
REFN	Y	0	0	0
BULK TERMINAL	Y	0	0	0
SEMS LIEN	Y	0	0	0
SUPERFUND ROD	Y	0	0	0
State				
RESPONSE	Y	0	0	0
ENVIROSTOR	Y	0	4	4
DELISTED ENVS	Y	0	0	0
SWF/LF	Y	0	0	0
SWRCB SWF	Y	0	0	0
WMUD	Y	0	0	0
HWP	Y	0	0	0
SWAT	Y	0	0	0
C&D DEBRIS RECY	Y	0	0	0
RECYCLING	Y	0	0	0
PROCESSORS	Y	0	0	0
CONTAINER RECY	Y	0	0	0
LDS	Y	0	0	0
LUST	Y	0	2	2
DELISTED LST	Y	0	0	0
UST	Y	0	0	0
UST CLOSURE	Y	0	0	0
HHSS	Y	0	3	3
UST SWEEPS	Y	0	3	3
AST	Y	0	0	0
AST SWRCB	Y	0	0	0
TANK OIL GAS	Y	0	0	0
DELISTED TNK	Y	0	1	1
CERS TANK	Y	0	0	0
DELISTED CTNK	Y	0	0	0
HIST TANK	Y	0	3	3
LUR	Y	0	0	0
CALSITES	Y	0	0	0
HLUR	Y	0	0	0
DEED	Y	0	0	0

Database	Searched	Project Property	Within 0.250mi	Total
VCP	Y	0	1	1
CLEANUP SITES	Y	0	0	0
DELISTED CLEANUP	Y	0	0	0
DELISTED COUNTY	Y	0	0	0
Tribal				
INDIAN LUST	Y	0	0	0
INDIAN UST	Y	0	0	0
DELISTED ILST	Y	0	0	0
DELISTED IUST	Y	0	0	0
County				
SML LA	Y	0	0	0
SWF LA COUNTY	Y	0	0	0
CUPA LA COUNTY	Y	0	0	0
HMS LA	Y	0	2	2
UST SANTAFESP	Y	0	0	0
UST LONGB	Y	0	2	2
CUPA BURBANK	Y	0	0	0
UST ELSEGUNDO	Y	0	0	0
UST SANTA MONICA	Y	0	0	0
AST SANTAMON	Y	0	0	0
CUPA SANTAMON	Y	0	0	0
UST TORRANCE	Y	0	0	0
UST VERNON	Y	0	0	0
CUPA VERNON	Y	0	0	0
UST LA CITY	Y	0	0	0
AST LA CITY	Y	0	0	0
HAZMAT LA CITY	Y	0	0	0
ICP ORANGE	Y	0	0	0
LOP ORANGE	Y	0	0	0
NPUT ORANGE	Y	0	0	0
UST ORANGE	Y	0	0	0
AST ORANGE	Y	0	0	0
UST CLP ANAHEIM	Y	0	0	0
UST ANAHEIM	Y	0	0	0
AST ANAHEIM	Y	0	0	0

Additional Environmental Records

Federal

FINDS/FRS	Y	0	41	41
TRIS	Y	0	0	0

Database	Searched	Project Property	Within 0.250mi	Total
PFAS TRI	Y	0	0	0
PFAS NPL	Y	0	0	0
PFAS WATER	Y	0	0	0
PFAS SSEHRI	Y	0	0	0
ERNS PFAS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
TSCA	Y	0	0	0
HIST TSCA	Y	0	0	0
FTTS ADMIN	Y	0	0	0
FTTS INSP	Y	0	0	0
PRP	Y	0	0	0
SCRD DRYCLEANER	Y	0	0	0
ICIS	Y	0	1	1
FED DRYCLEANERS	Y	0	0	0
DELISTED FED DRY	Y	0	0	0
FUDS	Y	0	0	0
FORMER NIKE	Y	0	0	0
PIPELINE INCIDENT	Y	0	0	0
MLTS	Y	0	0	0
HIST MLTS	Y	0	0	0
MINES	Y	0	0	0
SMCRA	Y	0	0	0
MRDS	Y	0	0	0
URANIUM	Y	0	0	0
ALT FUELS	Y	0	0	0
CONSENT DECREES	Y	0	0	0
AFS	Y	0	0	0
SSTS	Y	0	0	0
PCBT	Y	0	0	0
PCB	Y	0	0	0
State				
DRYCLEANERS	Y	0	0	0
DELISTED DRYCLEANERS	Y	0	0	0
DRYC GRANT	Y	0	0	0
PFAS	Y	0	0	0
PFAS GW	Y	0	0	0
HWSS CLEANUP	Y	0	0	0
TOXIC PITS	Y	0	0	0
DTSC HWF	Y	0	0	0

Database	Searched	Project Property	Within 0.250mi	Total
INSP COMP ENF	Y	0	0	0
SCH	Y	0	3	3
CHMIRS	Y	0	7	7
HIST CHMIRS	Y	0	1	1
HAZNET	Y	0	19	19
HAZ GEN	Y	0	75	75
HAZ TSD	Y	0	0	0
HIST MANIFEST	Y	0	3	3
HW TRANSPORT	Y	0	0	0
WASTE TIRE	Y	0	0	0
MEDICAL WASTE	Y	0	0	0
HIST CORTESE	Y	0	0	0
CDO/CAO	Y	0	0	0
CERS HAZ	Y	0	2	2
DELISTED HAZ	Y	0	0	0
GEOTRACKER	Y	0	0	0
MINE	Y	0	0	0
LIEN	Y	0	0	0
WASTE DISCHG	Y	0	0	0
EMISSIONS	Y	0	1	1
CDL	Y	0	0	0

Tribal

No Tribal additional environmental record sources available for this State.

County

HAZMAT SANTAMON	Y	0	0	0
HAZ WST SANTAMON	Y	0	0	0
HW ORANGE	Y	0	0	0

Total: 0 231 231

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	HAZ GEN	COLUMBIA MEDICAL BUILDING PHARMACY	6880 E 10TH ST LONG BEACH CA 908154930	S	0.19 / 977.48	-2	52
2	HAZ GEN	JACQUELINE BEAUCHAMP	6840 E 10TH ST LONG BEACH CA 90815	SW	0.14 / 750.75	-2	52
2	HAZ GEN	BEAUCHAMP, DONALD	6840 E. 10TH STREET LONG BEACH CA 90815	SW	0.14 / 750.75	-2	52
3	HAZ GEN	GLYNN, PETER & EMILY	6810 E 11TH ST LONG BEACH CA 908154934	W	0.11 / 564.87	-2	52
4	HAZNET	LOUIS MOSKOWITC	6811 E 10TH ST LONG BEACH CA 90815	WSW	0.11 / 580.19	-2	52
5	RCRA NON GEN	WILLIAM WITT	6841 E MANTOVA ST LONG BEACH CA 90815-4916 <i>EPA Handler ID: CAC003061611</i>	NNE	0.20 / 1,067.32	-3	53
5	FINDS/FRS	WILLIAM WITT	6841 E MANTOVA ST LONG BEACH CA 90815-4916 <i>Registry ID: 110070806577</i>	NNE	0.20 / 1,067.32	-3	54
6	HAZNET	NATE LEMON	900 STEVELY AVE LONG BEACH CA 908154941	SSE	0.24 / 1,248.14	-2	55
6	HAZ GEN	NATE LEMON	900 STEVELY AVE LONG BEACH CA 908154941	SSE	0.24 / 1,248.14	-2	55
7	HAZNET	NOELLE MAGUIRE	6736 E EL JARDIN ST LONG BEACH CA 908154911	WNW	0.07 / 381.58	-4	56
8	RCRA NON GEN	BICH DANG	6902 E DE LEON ST LONG BEACH CA 90815 <i>EPA Handler ID: CAC003023013</i>	NNE	0.20 / 1,074.09	-1	56
8	FINDS/FRS	BICH DANG	6902 E DE LEON ST LONG BEACH CA 90815 <i>Registry ID: 110070586477</i>	NNE	0.20 / 1,074.09	-1	57

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
9	RCRA NON GEN	ROBERT ANDERSON	872 N KAREN WAY LONG BEACH CA 90815 <i>EPA Handler ID: CAC003022678</i>	S	0.20 / 1,048.98	-1	58
9	FINDS/FRS	ROBERT ANDERSON	872 N KAREN WAY LONG BEACH CA 90815 <i>Registry ID: 110070586181</i>	S	0.20 / 1,048.98	-1	59
10	RCRA NON GEN	ROSA TRUJILLO	6835 E DE LEON ST LONG BEACH CA 90815- 4908 <i>EPA Handler ID: CAC003061754</i>	NNE	0.18 / 925.38	-3	60
10	FINDS/FRS	ROSA TRUJILLO	6835 E DE LEON ST LONG BEACH CA 90815- 4908 <i>Registry ID: 110070806129</i>	NNE	0.18 / 925.38	-3	62
11	RCRA NON GEN	ELNA ANDERSON	860 STEVELY AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003026455</i>	SSE	0.24 / 1,259.53	-1	62
11	FINDS/FRS	ELNA ANDERSON	860 STEVELY AVE LONG BEACH CA 90815 <i>Registry ID: 110070651818</i>	SSE	0.24 / 1,259.53	-1	64
12	HHSS	SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA 90815	W	0.01 / 32.09	0	64
12	HIST TANK	SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA	W	0.01 / 32.09	0	65
12	UST SWEEPS	SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA <i>C C / Status: A19-060-17444 ACTIVE Tank ID: 000003, 000001, 000002</i>	W	0.01 / 32.09	0	65
13	HAZ GEN	MARIE BENSON	881 KALLIN AVE. LONG BEACH CA 90815	SW	0.08 / 421.70	-3	66
14	FINDS/FRS	7-ELEVEN INC. STORE #27017	1190 N STUDEBAKER RD LONG BEACH CA 90815 <i>Registry ID: 110064933425</i>	W	0.00 / 24.43	-1	66
14	CERS HAZ	7-ELEVEN INC. STORE #27017	1190 N STUDEBAKER RD LONG BEACH CA 90815	W	0.00 / 24.43	-1	67
15	RCRA NON GEN	SUSAN MURRAY	6718 EAST MANTOVA ST. LONG BEACH CA 90815 <i>EPA Handler ID: CAC002978775</i>	NW	0.07 / 347.29	-3	70
15	FINDS/FRS	SUSAN MURRAY	6718 EAST MANTOVA ST. LONG BEACH CA 90815	NW	0.07 / 347.29	-3	72

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			Registry ID: 110070437103				
16	HAZ GEN	JENNIFER JONES	876 KALLIN LONG BEACH CA 90815	SW	0.09 / 452.12	-2	72
17	HAZNET	SHAWN SCHWARZ	6920 E Bacarro St Long Beach CA 908154805	NNE	0.18 / 971.62	-2	73
18	HAZ GEN	KEVIN HUGHES	864 ROXANNE AVE LONG BEACH CA 908155013	SSW	0.14 / 723.79	-2	73
19	RCRA NON GEN	CHARLES D CLAY AND PATRICIA C CLAY	6719 E MANTOVA ST LONG BEACH CA 90815	NW	0.06 / 317.00	-2	73
			EPA Handler ID: CAC003178326				
20	CHMIRS	Long Beach Fire	Studebaker Road and Anaheim Road Long Beach CA Control No Notified Date: 09-8465	W	0.00 / 18.01	-2	75
21	HAZ GEN	KATHRYN & STEVEN BRADLEY	6935 E BACARRO ST LONG BEACH CA 908154806	NNE	0.21 / 1,083.56	-2	77
22	RCRA NON GEN	VICTORIA BILLIT	6911 EAST BACARRO STREET LONG BEACH CA 90815- 4806 EPA Handler ID: CAC002984547	NNE	0.16 / 861.02	-2	77
22	FINDS/FRS	VICTORIA BILLIT	6911 EAST BACARRO STREET LONG BEACH CA 90815- 4806 Registry ID: 110070406832	NNE	0.16 / 861.02	-2	78
23	LUST	RETIREMENT HOUSING FOUNDATION	911 STUDEBAKER ROAD LONG BEACH CA 90815	W	0.01 / 35.13	-1	79
			Global ID Status Status Date: T0603795885 COMPLETED - CASE CLOSED 12/11/2013				
23	HAZNET	PERKOWITZ & RUTH ARCHITECTS, INC.	911 STUDEBAKER RD LONG BEACH CA 908150000	W	0.01 / 35.13	-1	82
23	FINDS/FRS	RETIREMENT HOUSING FOUNDATION	911 STUDEBAKER ROAD LONG BEACH CA 90815	W	0.01 / 35.13	-1	83
			Registry ID: 110065304744				
24	FINDS/FRS	CARLEN ENTERPRISES	1000 N. STUDEBAKER RD. LONG BEACH CA 90815-	WSW	0.00 / 20.06	-2	83
			Registry ID: 110022300794				
25	HAZ GEN	S S MECHANICAL INC	6630 EAST ANAHEIM RD LONG BEACH CA 90815	W	0.02 / 85.80	-3	84

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
26	ERNS		6702 EAST MANTOVA STREET LONG BEACH CA NRC Report No: 549122	NW	0.04 / 193.64	-3	84
27	HAZNET	MPR INC	911 STUDEBAKER LONG BEACH CA 908150000	W	0.02 / 120.40	-1	87
28	RCRA NON GEN	ANDY OLIVER	865 KALLIN AVENUE LONG BEACH CA 90815 EPA Handler ID: CAC003096588	SW	0.09 / 458.63	-3	87
29	RCRA NON GEN	CHRIS SULSONA	845 STEVELY AVE LONG BEACH CA 90815 EPA Handler ID: CAC003023104	S	0.20 / 1,066.69	0	89
29	FINDS/FRS	CHRIS SULSONA	845 STEVELY AVE LONG BEACH CA 90815 Registry ID: 110070586556	S	0.20 / 1,066.69	0	90
30	HMS LA		6560 E ANAHEIM RD LONG BEACH CA 90815	W	0.03 / 172.83	-3	91
30	UST LONGB	LA County Public Works	6560 E Anaheim RD Long Beach CA	W	0.03 / 172.83	-3	91
30	UST LONGB	LA County Public Works	6560 E Anaheim RD Long Beach CA	W	0.03 / 172.83	-3	92
30	HAZ GEN	L A COUNTY PUBLIC WORKS/FLOOD MAINT.	6560 E ANAHEIM RD LONG BEACH CA 908150000	W	0.03 / 172.83	-3	92
31	RCRA NON GEN	LYNN GAY	845 ROXANNE AVENUE LONG BEACH CA 90815 EPA Handler ID: CAC002993484	SSW	0.13 / 678.37	-2	93
31	FINDS/FRS	LYNN GAY	845 ROXANNE AVENUE LONG BEACH CA 90815 Registry ID: 110070512892	SSW	0.13 / 678.37	-2	94
32	HAZ GEN	JEAN TANAKA	836 STEVELY AVE LONG BEACH CA 90815	SSE	0.21 / 1,114.81	-1	95
33	RCRA NON GEN	KYLE GIPSON	856 KALLIN AVENUE LONG BEACH CA 90815 EPA Handler ID: CAC003068735	SW	0.08 / 441.83	-2	95

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
34	HAZ GEN	FERGUSON, EILEEN	1283 N STUDEBAKER RD LONG BEACH CA 908154831	NW	0.01 / 31.28	-3	96
35	RCRA NON GEN	GEORGE BALDERAS	6861 E ROXANNE WAY LONG BEACH CA 90815 <i>EPA Handler ID: CAC003174068</i>	S	0.16 / 848.49	-2	96
36	HAZ GEN	ROBERT BRIESTER	6871 E ROXANNE WAY LONG BEACH CA 908155016	S	0.17 / 882.85	-2	98
37	RCRA NON GEN	KIER DELEO	833 ROXANNE AVENUE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003183756</i>	SSW	0.13 / 678.97	-2	98
37	RCRA NON GEN	KIER DELEO	833 ROXANNE AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003189235</i>	SSW	0.13 / 678.97	-2	99
38	HAZ GEN	JEAN BAUER	6870 E ROXANNE WAY LONG BEACH CA 908155015	S	0.17 / 873.52	-2	101
39	HAZ GEN	BATES CARL & CATHY 44-100404	824 STEVELY AVE LONG BEACH CA 90816	S	0.19 / 980.70	-1	101
40	RCRA NON GEN	RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815 <i>EPA Handler ID: CAC003055094</i>	S	0.18 / 931.36	-3	101
40	RCRA NON GEN	RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815 <i>EPA Handler ID: CAC003055228</i>	S	0.18 / 931.36	-3	102
40	RCRA NON GEN	MONICA OR RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815- 5015 <i>EPA Handler ID: CAC003057533</i>	S	0.18 / 931.36	-3	104
40	FINDS/FRS	RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815 <i>Registry ID: 110070726804</i>	S	0.18 / 931.36	-3	105
40	FINDS/FRS	MONICA OR RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815 <i>Registry ID: 110070807526</i>	S	0.18 / 931.36	-3	106
41	HAZ GEN	GRUNEWALD, CARMEN	6825 E. ESPANITA ST. LONG BEACH CA 90815	N	0.07 / 360.52	-2	107
42	HAZ GEN	HUE DANG	833 KALLIN AVE LONG BEACH CA 90815	SSW	0.08 / 414.20	-3	107

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
43	RCRA NON GEN	DEBORAH DELFS	6920 E DRISCOLL ST LONG BEACH CA 90815-4809 <i>EPA Handler ID:</i> CAC003029887	NNE	0.17 / 918.82	-2	107
43	FINDS/FRS	DEBORAH DELFS	6920 E DRISCOLL ST LONG BEACH CA 90815-4809 <i>Registry ID:</i> 110070661070	NNE	0.17 / 918.82	-2	108
44	RCRA NON GEN	SHERRY SPAN	6934 E DRISCOLL STREET LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003120662	NNE	0.20 / 1,039.84	-2	109
45	RCRA NON GEN	PATRICIA & STEVE WILLIAMS	6854 E DRISCOLL ST LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003072165	NNE	0.13 / 670.67	-2	111
46	HAZ GEN	DAVID YZIAS	6946 E DRISCOLL AVE LONG BEACH CA 90815	NE	0.22 / 1,165.14	-2	112
47	HAZ GEN	LINDA DAVIS	850 LEES AVE LONG BEACH CA 90815	SW	0.03 / 160.52	-2	112
48	HAZ GEN	JONATHAN BRIMLEY	6947 E DRISCOLL ST LONG BEACH CA 908154810	NE	0.22 / 1,160.87	-2	112
49	HAZ GEN	KATHERINE MALONE	846 LEES AVEMIE LONG BEACH CA 90815	SW	0.03 / 160.34	-1	112
50	ENVIROSTOR	HILL MIDDLE SCHOOL GYMNASIUM PROJECT	1100 IROQUOIS AVENUE LONG BEACH CA 90815 <i>Estor/EPA ID Cleanup Status:</i> 60002322 NO FURTHER ACTION AS OF 1/19/2018	WSW	0.07 / 357.72	0	113
50	SCH	HILL MIDDLE SCHOOL GYMNASIUM PROJECT	1100 IROQUOIS AVENUE LONG BEACH CA 90815 <i>Estor/EPA ID Cleanup Status:</i> 60002322 NO FURTHER ACTION AS OF 1/19/2018	WSW	0.07 / 357.72	0	116
51	HAZ GEN	RUSINAS, PATRICIA	6817 E DRISCOLL ST LONG BEACH CA 908154808	N	0.06 / 300.31	-2	119
52	HAZ GEN	BRYAN RUSSEL	6841 E KALLIN WAY LONG BEACH CA 908155007	S	0.11 / 592.73	-4	119
53	HAZ GEN	ANDREA GOESCH	6860 E KALLIN WAY LONG BEACH CA 90815	S	0.13 / 704.77	-3	119

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
54	HAZ GEN	ALONSO DELGADO	834 LEES AVENUE LONG BEACH CA 90815	SSW	0.03 / 160.18	-2	119
55	RCRA NON GEN	ROBIN LOVELY	6707 E. BACARRO ST LONG BEACH CA 90815 <i>EPA Handler ID: CAC003091084</i>	NNW	0.04 / 196.39	-3	119
56	DELISTED TNK	LOS ALTOS PUMPING PLANT	6560 ANAHEIM ROAD Long Beach CA 90815	W	0.12 / 615.47	-4	121
56	HHSS	LOS ALTOS PUMP PLANT	6560 ANAHEIM RD. LONG BEACH CA 90815	W	0.12 / 615.47	-4	121
56	HAZNET	L A COUNTY PUBLIC WORKS/FLOOD MAINT.	6560 ANAHEIM RD LONG BEACH CA 000000000	W	0.12 / 615.47	-4	121
56	EMISSIONS	LA COUNTY, DEPT OF PUBLIC WORK	6560 ANAHEIM RD LONG BEACH CA	W	0.12 / 615.47	-4	122
56	FINDS/FRS	LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 90815-0000 <i>Registry ID: 110070451538</i>	W	0.12 / 615.47	-4	122
56	UST SWEEPS	LOS ALTOS PUMPING PLANT	6560 ANAHEIM RD LONG BEACH CA <i>C C Status: A19-060-34054 ACTIVE Tank ID: 000001</i>	W	0.12 / 615.47	-4	123
56	RCRA LQG	LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 90815-0000 <i>EPA Handler ID: CAL000220058</i>	W	0.12 / 615.47	-4	123
56	HAZ GEN	LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 908150000	W	0.12 / 615.47	-4	126
57	HAZ GEN	WILLIAM ELGIN	6701 BACARRO ST LONG BEACH CA 90815	NNW	0.04 / 219.01	-2	126
58	FINDS/FRS	LORNA ROLAND	830 LEES AVE LONG BEACH CA 90815 <i>Registry ID: 110011584918</i>	SSW	0.03 / 156.18	-3	126
58	RCRA NON GEN	SILVIA GARBIN	830 LEES AVENUE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003164980</i>	SSW	0.03 / 156.18	-3	127
58	HAZ GEN	DAVE GARBIN	830 LEES AVE LONG BEACH CA 908155010	SSW	0.03 / 156.18	-3	128

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
59	HAZNET	MARY AND WAYNE JOHNSON	6541 E MANTOVA ST LONG BEACH CA 908154661	WNW	0.11 / 575.91	-3	128
60	HAZ GEN	DIANA FICKLIN	6957 E GOLDCREST ST LONG BEACH CA 90815	NNE	0.13 / 705.67	-2	129
61	HAZ GEN	VALERIE EDEN BEACHLEY	1414 VUELTA GRANDE AVE LONG BEACH CA 90815	NW	0.07 / 366.36	-3	129
62	HAZ GEN	QUINALTY TERRY 44-85145	821 LEES AVENUE LONG BEACH CA 90815	SSW	0.03 / 140.94	-3	129
63	HAZ GEN	L.A.COUNTY PUBLIC WORKS FLOOD MAINT.	6560 ANAHEIM LONG BEACH CA 908150000	SW	0.04 / 201.92	-16	129
64	HAZ GEN	JOHN HAUCK	161 HARVARD LN SEAL BEACH CA 907402508	SE	0.21 / 1,110.03	-5	129
65	RCRA NON GEN	MARK NAITHAUS	6890 E LEES WAY LONG BEACH CA 90815-5011 EPA Handler ID: CAC003038990	S	0.09 / 457.85	-3	130
65	FINDS/FRS	MARK NAITHAUS	6890 E LEES WAY LONG BEACH CA 90815-5011 Registry ID: 110070653281	S	0.09 / 457.85	-3	131
66	HAZ GEN	CASSIE HALVORSON	6710 E ESPANITA ST LONG BEACH CA 908154851	NNW	0.08 / 430.13	-4	132
66	HAZ GEN	SARAH PETERSON	6710 E ESPANITA ST LONG BEACH CA 908154851	NNW	0.08 / 430.13	-4	132
67	HAZ GEN	REED, PATRICIA	153 HARVARD LN SEAL BEACH CA 907402508	SE	0.19 / 1,010.34	-5	132
68	HAZ GEN	JOHN THOMETZ	6520 E DELEON ST. LONG BEACH CA 90815	WNW	0.14 / 745.15	-3	132
69	RCRA NON GEN	RON HODGE	6521 E DE LEON ST LONG BEACH CA 90815-4628 EPA Handler ID: CAC003041583	WNW	0.14 / 750.11	-4	132

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
69	FINDS/FRS	RON HODGE	6521 E DE LEON ST LONG BEACH CA 90815-4628 <i>Registry ID:</i> 110070650949	WNW	0.14 / 750.11	-4	134
70	RCRA NON GEN	EVAN BADER	144 HARVARD LN SEAL BEACH CA 90740-2509 <i>EPA Handler ID:</i> CAC003026971	SE	0.18 / 931.62	-5	135
70	FINDS/FRS	EVAN BADER	144 HARVARD LN SEAL BEACH CA 90740-2509 <i>Registry ID:</i> 110070651846	SE	0.18 / 931.62	-5	136
71	HAZ GEN	FRENCH, LAURA	145 HARVARD LN SEAL BEACH CA 907402508	SE	0.17 / 890.37	-5	137
72	RCRA NON GEN	LISA WICKER	6510 E DE LEON ST LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC002984551	WNW	0.15 / 805.70	-4	137
72	FINDS/FRS	LISA WICKER	6510 E DE LEON ST LONG BEACH CA 90815 <i>Registry ID:</i> 110070406836	WNW	0.15 / 805.70	-4	138
73	RCRA NON GEN	BEN MORGAN	6734 E DRISCOLL ST LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003114388	NNW	0.08 / 410.87	-3	139
74	HAZ GEN	ELINORE RICHARDSON	153 STANFORD LN SEAL BEACH CA 907402533	ESE	0.23 / 1,194.93	-6	140
75	HAZ GEN	RAYMON GILBERT	1503 VUELTA GRANDE AVE LONG BEACH CA 90815	NW	0.11 / 590.69	-4	141
76	RCRA NON GEN	KATHLEEN TOBIN	1602 PATTIZ AVE LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003167012	NNE	0.19 / 1,024.95	-1	141
77	FINDS/FRS	LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL)	1100 IROQUIOS AVENUE LONG BEACH CA 90815-4649 <i>Registry ID:</i> 110002699615	W	0.20 / 1,035.50	-2	142
77	HAZNET	1X HILL JUNIOR HIGH SCHOOL	1100 IROQUOIS AVE. LONG BEACH CA 913010000	W	0.20 / 1,035.50	-2	143
77	HIST MANIFEST		1100 IROQUIOS AVENUE LONG BEACH CA 908150000	W	0.20 / 1,035.50	-2	143
77	RCRA SQG	LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL)	1100 IROQUIOS AVENUE LONG BEACH CA 90815-0000	W	0.20 / 1,035.50	-2	144

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
			<i>EPA Handler ID:</i> CAD981419849					
77	HAZ GEN	LBUSD-HILL MIDDLE SCHOOL	1100 IROQUIOS AVENUE LONG BEACH CA 908150000	W	0.20 / 1,035.50	-2	153	
78	HAZNET	HOLLY DAVIS	787 SALIDA AVE LONG BEACH CA 908155017	SSW	0.05 / 263.88	-4	154	
79	HIST TANK	LOS ALTOS PUMP PLANT	6560 ANAHEIM RD. LONG BEACH CA	W	0.20 / 1,053.09	-4	154	
80	HAZ GEN	JANET OTTO	6981 E EL ROBLE ST LONG BEACH CA 90815	NNE	0.15 / 798.21	0	154	
81	HAZ GEN	KRISTEN NEWMAN	6471 E EL JARDIN STREET LONG BEACH CA 90815	W	0.19 / 1,026.75	-4	154	
82	CHMIRS	Long Beach Water Dept	6491 Bixby Hill Rd Long Beach CA 90815	SW	0.10 / 530.18	-1	155	
			<i>Control No Notified Date:</i> 11-1172					
83	RCRA NON GEN	ROBERT ARBOIT	133 HARVARD LANE SEAL BEACH CA 90740	SE	0.14 / 720.63	-5	157	
			<i>EPA Handler ID:</i> CAC002977190					
83	FINDS/FRS	ROBERT ARBOIT	133 HARVARD LANE SEAL BEACH CA 90740	SE	0.14 / 720.63	-5	158	
			<i>Registry ID:</i> 110070465779					
84	HAZ GEN	MESSENGER, MARK	141 STANFORD LN SEAL BEACH CA 907402533	SE	0.20 / 1,047.47	-6	159	
85	RCRA NON GEN	CHERI SWATEK	6921 E SEPTIMO ST LONG BEACH CA 90815-5021	S	0.04 / 216.84	-4	159	
			<i>EPA Handler ID:</i> CAC003062443					
85	FINDS/FRS	CHERI SWATEK	6921 E SEPTIMO ST LONG BEACH CA 90815-5021	S	0.04 / 216.84	-4	161	
			<i>Registry ID:</i> 110070803562					
86	HAZ GEN	MELVIN KANTZ	6911 EAST SEPTIMO STREET LONG BEACH CA 90815	S	0.04 / 207.58	-3	161	
87	HAZ GEN	KEN GENTILE	6890 E. SEPTIMO ST. LONG BEACH CA 90815	S	0.04 / 189.66	-4	162	

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
88	HAZ GEN	MANUEL LOPEZ	6860 E SEPTIMO ST LONG BEACH CA 908155018	S	0.04 / 187.85	-3	162
89	LUST	LA COUNTY PUBLIC WORKS - ALAMITOS YARD	881 IROQUOIS ST. LONG BEACH CA 90815	WSW	0.18 / 934.50	-3	162
<i>Global ID Status Status Date:</i> T0603727690 COMPLETED - CASE CLOSED 8/23/2006							
89	FINDS/FRS	LA COUNTY PUBLIC WORKS - ALAMITOS YARD	881 IROQUOIS ST. LONG BEACH CA 90815	WSW	0.18 / 934.50	-3	165
<i>Registry ID:</i> 110066812729							
90	HAZ GEN	HAROLD SEIFER	6471 E MANTOVA ST LONG BEACH CA 90815	WNW	0.20 / 1,066.87	-3	166
91	HAZNET	1X WACHI, FRANCIS	6530 ESPANITA ST LONG BEACH CA 908154635	NW	0.17 / 900.00	-2	166
91	HIST MANIFEST		6530 ESPANITA ST LONG BEACH CA 908154635	NW	0.17 / 900.00	-2	167
92	HAZ GEN	JAMIL & SIHAM BUDEIRI	871 N RANCHO DR LONG BEACH CA 90815	WSW	0.13 / 712.64	1	168
93	HAZ GEN	ANITA PATTEN	1411 JOSIE AVENUE LONG BEACH CA 90815	WNW	0.19 / 1,014.89	-3	168
94	HHSS	ALAMITOS YARD	881 IROQUOIS AVENUE LONG BEACH CA 90815	WSW	0.17 / 898.10	-3	168
94	HIST TANK	ALAMITOS YARD	881 IROQUOIS AVENUE LONG BEACH CA	WSW	0.17 / 898.10	-3	168
94	RCRA NON GEN	LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 90815-0000	WSW	0.17 / 898.10	-3	168
<i>EPA Handler ID:</i> CAL000200686							
94	FINDS/FRS	LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 90815-0000	WSW	0.17 / 898.10	-3	170
<i>Registry ID:</i> 110070447728							
94	UST SWEEPS	ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA	WSW	0.17 / 898.10	-3	171
<i>C C Status:</i> A19-060-34055 ACTIVE							
<i>Tank ID:</i> 000001							

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
94	HAZ GEN	LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 908150000	WSW	0.17 / 898.10	-3	171
95	RCRA NON GEN	KRISTIN & JUSTIN PYUN	1632 PETALUMA AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003193169</i>	N	0.06 / 291.34	-2	171
96	RCRA NON GEN	DAVID SAZEGAR	6810 SEPTIMO AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC002981934</i>	SSW	0.02 / 116.29	-3	173
96	FINDS/FRS	DAVID SAZEGAR	6810 SEPTIMO AVE LONG BEACH CA 90815 <i>Registry ID: 110070437656</i>	SSW	0.02 / 116.29	-3	174
97	HAZ GEN	MATTHEW ROPPO	125 STANFORD LN SEAL BEACH CA 907402533	SE	0.16 / 857.16	-6	175
98	HMS LA		881 N IROQUOIS ST LONG BEACH CA 90815	WSW	0.19 / 994.31	-2	175
99	HAZNET	DEBBIE TANKERSLEY	6916 E EL ROBLE ST LONG BEACH CA 908154815	N	0.06 / 306.85	0	175
100	RCRA NON GEN	SHELDON GEBB	6450 EAST MANTOVA STREET LONG BEACH CA 90815 <i>EPA Handler ID: CAC003160220</i>	WNW	0.22 / 1,186.46	-3	176
101	RCRA NON GEN	KUBIEK, PAUL	121 STANFORD LANE SEAL BEACH CA 90740 <i>EPA Handler ID: CAC002982019</i>	SE	0.15 / 792.56	-7	177
101	FINDS/FRS	KUBIEK, PAUL	121 STANFORD LANE SEAL BEACH CA 90740 <i>Registry ID: 110070438262</i>	SE	0.15 / 792.56	-7	179
102	HAZ GEN	BLEEKER GRAHAM	113 HARVARD LN SEAL BEACH CA 907402508	SE	0.10 / 541.47	-6	179
103	HAZNET	TORRES, ANGELICA	7032 E. EL CEDRAL ST. LONG BEACH CA 90815	NNE	0.22 / 1,147.28	-1	179
104	RCRA NON GEN	FRANCIS BETTIS	7011 E EL CEDRAL STREET LONG BEACH CA 90815 <i>EPA Handler ID: CAC003106031</i>	NNE	0.18 / 952.64	-1	180
104	RCRA NON GEN	FRANCIS BETTIS	7011 E EL CEDRAL ST LONG BEACH CA 90815	NNE	0.18 / 952.64	-1	181

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
			<i>EPA Handler ID:</i> CAC003139802					
105	SCH	EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.08 / 419.90	1	183	
			<i>Estor/EPA ID Cleanup Status:</i> 19820023 NO ACTION REQUIRED AS OF 2/11/2000					
105	ENVIROSTOR	EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.08 / 419.90	1	183	
			<i>Estor/EPA ID Cleanup Status:</i> 19820023 NO ACTION REQUIRED AS OF 2/11/2000					
106	RCRA NON GEN	STEVE JONES	108 HARVARD LN SEAL BEACH CA 90740-2509	SE	0.10 / 526.86	-6	184	
			<i>EPA Handler ID:</i> CAC003057488					
106	FINDS/FRS	STEVE JONES	108 HARVARD LN SEAL BEACH CA 90740-2509	SE	0.10 / 526.86	-6	185	
			<i>Registry ID:</i> 110070804861					
107	RCRA NON GEN	FEDERICO & NANCY JIMENEZ	117 YALE LANE SEAL BEACH CA 90740	SE	0.20 / 1,047.36	-6	186	
			<i>EPA Handler ID:</i> CAC003051585					
107	FINDS/FRS	FEDERICO & NANCY JIMENEZ	117 YALE LANE SEAL BEACH CA 90740	SE	0.20 / 1,047.36	-6	187	
			<i>Registry ID:</i> 110070718028					
108	FINDS/FRS	LONG BEACH USD-TINCHER ELEMENTARY	1701 PETALUMA AVENUE LONG BEACH CA 90815-4855	NNW	0.13 / 669.51	0	188	
			<i>Registry ID:</i> 110002700239					
108	RCRA LQG	LONG BEACH USD-TINCHER ELEMENTARY	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.13 / 669.51	0	189	
			<i>EPA Handler ID:</i> CAD981421191					
108	HAZ GEN	LBUSD-TINCHER ELEMENTARY	1701 PETALUMA AVE LONG BEACH CA 908154855	NNW	0.13 / 669.51	0	190	
108	HAZ GEN	LONG BCH USD/TINCHER ELEM SCH	1701 PETALUMA AVE LONG BEACH CA 908150000	NNW	0.13 / 669.51	0	190	
109	RCRA NON GEN	CHRISTY HOOVER	112 STANFORDLN SEAL BEACH CA 90740	SE	0.16 / 858.47	-4	190	
			<i>EPA Handler ID:</i> CAC002981167					
109	FINDS/FRS	CHRISTY HOOVER	112 STANFORDLN SEAL BEACH CA 90740	SE	0.16 / 858.47	-4	192	
			<i>Registry ID:</i> 110070438021					
110	SCH	EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.11 / 583.79	1	193	
			<i>Estor/EPA ID Cleanup Status:</i> 19820122 NO ACTION REQUIRED AS OF 2/11/2000					

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
110	ENVIROSTOR	EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.11 / 583.79	1	194
<i>Estor/EPA ID Cleanup Status:</i> 19820122 NO ACTION REQUIRED AS OF 2/11/2000							
111	HAZ GEN	ROD JUNE	113 YALE LN SEAL BEACH CA 907402521	SE	0.19 / 1,022.04	-6	195
112	CHMIRS	Long Beach Fire Dept	1501 Josie Ave Long Beach CA	NW	0.22 / 1,173.11	-2	195
<i>Control No Notified Date:</i> 3/23/200203:29:39 PM							
113	HAZ GEN	DAN MCDONALD	6958 E. EL CEDRAL STREET LONG BEACH CA 90815	NNE	0.12 / 610.94	-1	195
114	RCRA NON GEN	DAN MCDONALD	6958 EAST EL CEDRAL ST LONG BEACH CA 90815	NNE	0.12 / 611.83	0	196
<i>EPA Handler ID:</i> CAC003135744							
115	HAZ GEN	FOSTER, MERLE	6510 E DRISCOLL ST LONG BEACH CA 908154630	NW	0.22 / 1,147.29	-4	197
116	HAZ GEN	CARRIE MARINOW	108 YALE LN SEAL BEACH CA 90740	SE	0.20 / 1,044.78	-6	197
117	RCRA NON GEN	MICHELLE THOMPSON	6441 E BIXBY HILL RD LONG BEACH CA 90815-4708	WSW	0.19 / 987.76	16	197
<i>EPA Handler ID:</i> CAC003029277							
117	FINDS/FRS	MICHELLE THOMPSON	6441 E BIXBY HILL RD LONG BEACH CA 90815-4708	WSW	0.19 / 987.76	16	199
<i>Registry ID:</i> 110070655220							
118	HAZNET	BERNADINE KUSSMAN	6431 E BIXBY HILL RD. LONG BEACH CA 90815	WSW	0.20 / 1,057.87	20	199
119	HAZ GEN	VANWEY, STEVEN	116 COLLEGE PARK DR SEAL BEACH CA 907402502	SE	0.08 / 424.54	-6	200
120	RCRA NON GEN	CHAVEZ, MARK	6291 E. DRISCOLL STREET LONG BEACH CA 90815	NW	0.24 / 1,264.60	-3	200
<i>EPA Handler ID:</i> CAC002976661							
120	FINDS/FRS	CHAVEZ, MARK	6291 E. DRISCOLL STREET LONG BEACH CA 90815	NW	0.24 / 1,264.60	-3	201
<i>Registry ID:</i> 110070465271							
121	RCRA NON GEN	THOMAS J KAMPWIRTH TR	149 COLLEGE PARK DR SEAL BEACH CA 90740	SE	0.18 / 951.16	-7	202

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>EPA Handler ID:</i> CAC003192748				
122	HAZNET	PHIL MORRILL	156 COLLEGE PARK DR SEAL BEACH CA 90740	SE	0.20 / 1,046.24	-6	204
123	CHMIRS	So. CA Edison	6485 Surrey Long Beach CA 91770	SW	0.15 / 807.93	6	204
			<i>Control No Notified Date:</i> 2/11/200301:14:15 PM				
124	HAZNET	1X SEAGER, PAM	6400 BIXBY HILL RD LONG BEACH CA 908150000	WSW	0.22 / 1,172.00	30	204
124	HIST MANIFEST		6400 BIXBY HILL RD LONG BEACH CA 908150000	WSW	0.22 / 1,172.00	30	205
125	HAZ GEN	GANI VOHRA	6484 E SURREY DR LONG BEACH CA 90815	SW	0.15 / 769.42	2	206
126	HAZ GEN	DON FRIZZELL	6485 E SURREY DR LONG BEACH CA 908154744	SW	0.15 / 795.56	3	206
127	FINDS/FRS	LOS ALAMITOS PRESSURE STATION	HWY. 22 & STUDEBAKER LONG BEACH CA 90802 <i>Registry ID:</i> 110065884902	S	0.07 / 346.73	-17	206
128	HAZ GEN	MARK SUDOCK	404 PURDUE CIR SEAL BEACH CA 907402516	SE	0.12 / 640.05	-6	207
129	VCP	EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803 <i>Estor/EPA ID Cleanup Status:</i> 19130113 INACTIVE - ACTION REQUIRED AS OF 9/9/2020	SSW	0.11 / 581.13	-1	207
129	ENVIROSTOR	EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803 <i>Estor/EPA ID Cleanup Status:</i> 19130113 INACTIVE - ACTION REQUIRED AS OF 9/9/2020	SSW	0.11 / 581.13	-1	208
130	ERNS		6463 BIXBY TERRACE DR LONG BEACH CA <i>NRC Report No:</i> 1035531	SW	0.16 / 820.56	-1	210
130	CHMIRS	NRC	6463 Bixby Terrace Dr. Long Beach CA <i>Control No Notified Date:</i> 13-0258	SW	0.16 / 820.56	-1	212
131	RCRA NON GEN	GABRIEL COHEN	1735 VUELTA GRANDE AVE LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003074639	NNW	0.19 / 989.63	-3	216

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
132	FINDS/FRS	VETERANS HEALTH CARE SYSTEM LONG BEACH	6901 EAST 7TH STREET LONG BEACH CA 90815 <i>Registry ID:</i> 110042340375	SW	0.14 / 753.40	4	217
132	ICIS	VETERANS HEALTH CARE SYSTEM LONG BEACH	6901 EAST 7TH STREET LONG BEACH CA 90815 <i>Registry ID:</i> 110042340375	SW	0.14 / 753.40	4	218
133	CHMIRS	City of Long Beach Health Dept	Atherton at Vuelta Grande Long Beach CA <i>Control No Notified Date:</i> 12/15/199806:51:48 PM	NNW	0.18 / 967.23	-2	219
134	FINDS/FRS	STEPHANIE ROHR	1040 FOXBURG #21G SEAL BEACH CA 90740 <i>Registry ID:</i> 110070462591	SE	0.07 / 351.80	-5	219
135	CERS HAZ	AT&T Mobility - (USID207498)	698 N STUDEBAKER RD LONG BEACH CA 90803	SSW	0.15 / 796.77	0	220
135	RCRA NON GEN	NEW CINGULAR WIRELESS PCS LLC	698 STUDEBAKER RD LONG BEACH CA 90803 <i>EPA Handler ID:</i> CAL000454395	SSW	0.15 / 796.77	0	222
135	FINDS/FRS	NEW CINGULAR WIRELESS PCS LLC	698 STUDEBAKER RD LONG BEACH CA 90803 <i>Registry ID:</i> 110070797235	SSW	0.15 / 796.77	0	223
136	CHMIRS	Long Beach Fire	6450 Bixby Terrace Drive Long Beach CA <i>Control No Notified Date:</i> 09-5247	SW	0.23 / 1,230.37	8	224
137	HAZNET	KEN STUTZMAN	1830 STEVELY AVE LONG BEACH CA 90815	NNE	0.25 / 1,297.41	2	226
138	RCRA NON GEN	TRACE EDWARDS	1833 NIPOMO AVE LONG BEACH CA 90815 <i>EPA Handler ID:</i> CAC003069451	NNW	0.16 / 860.62	-2	227
139	RCRA NON GEN	ALBERT COMIA	13020 OAK HILLS DR UNIT 225-F SEAL BEACH CA 90740-3288 <i>EPA Handler ID:</i> CAC003030141	SE	0.16 / 868.38	-5	228
139	FINDS/FRS	ALBERT COMIA	13020 OAK HILLS DR SEAL BEACH CA 90740-3288 <i>Registry ID:</i> 110070655260	SE	0.16 / 868.38	-5	229
139	RCRA NON GEN	NEIL ARONOW	13020 OAK HILLS DR UNIT 225G SEAL BEACH CA 90740 <i>EPA Handler ID:</i> CAC003139068	SE	0.16 / 868.38	-5	230

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
140	HIST CHMIRS		1080 BROOKLINE RD SEAL BEACH CA	SSE	0.10 / 549.82	-7	232
140	HAZ GEN	BILL HAMILTON	1080 BROOKLINE RD APT 213A SEAL BEACH CA 907403271	SSE	0.10 / 549.82	-7	232
141	RCRA NON GEN	CAROL COX	1060 BROOKLINE RD #212A SEAL BEACH CA 90740 <i>EPA Handler ID:</i> CAC003166833	SSE	0.10 / 551.11	-7	232
142	HAZ GEN	STEPHEN J LOPEZ	1100 BROOKLINE RD UNIT 222-A SEAL BEACH CA 90740	SSE	0.11 / 604.21	-7	234
143	FINDS/FRS	DONNA WENRICH	13061 OAK HILL DRIVE #221-L SEAL BEACH CA 90740 <i>Registry ID:</i> 110070439312	SE	0.18 / 967.55	-5	234
144	HAZ GEN	LUKA SIDARONS	13081 OAK HILLS DRIVE #223F SEAL BEACH CA 90740	SE	0.18 / 968.44	-5	234
145	HAZ GEN	LYNNE RETMIER	13140 NASSAU DR APT 214B SEAL BEACH CA 907403227	SSE	0.13 / 702.19	-7	235
146	HAZNET	RYAN MCMULLAN	1903 VUELTA GRANDE AVE LONG BEACH CA 90815	NNW	0.24 / 1,266.87	-1	235
146	HAZ GEN	SARAH & RYAN MCMULLAN	1903 VUELTA GRANDE AVE LONG BEACH CA 90815	NNW	0.24 / 1,266.87	-1	235
147	HAZNET	LEISURE WORLD, INC	1280 SCIOTO RD SEAL BEACH CA 90790	SE	0.23 / 1,202.46	-6	235
148	HAZ GEN	GENNI PROGLIO	6931 E FAIRBROOK ST LONG BEACH CA 908153602	N	0.22 / 1,168.50	2	236
149	HAZ GEN	DORIS WEINERT	13121 OAKHILLS RD UNIT 233-F SEAL BEACH CA 90740	SE	0.23 / 1,238.11	-5	236
150	HAZ GEN	JIMMIE AKARASRIWON	13101 OAK HILLS DR APT 234G SEAL BEACH CA 907403237	SE	0.24 / 1,254.28	-5	236

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
150	HAZ GEN	BETH MAYER	13101 OAK HILLS DR # 23A SEAL BEACH CA 907403295	SE	0.24 / 1,254.28	-5	236
151	RCRA NON GEN	TOM DUCKWORTH	1123 NORTHWOOD 236H SEAL BEACH CA 90740 <i>EPA Handler ID:</i> CAC002988008	SE	0.23 / 1,222.41	-6	237
152	HAZ GEN	JOHANSEN, RICHARD	1125 NORTHWOOD RD. SEAL BEACH CA 90740	SE	0.23 / 1,226.31	-6	238
153	FINDS/FRS	TOM DUCKWORTH	1123 NORTHWOOD 236H SEAL BEACH CA 90740 <i>Registry ID:</i> 110070441615	SE	0.23 / 1,225.06	-6	238
154	HAZ GEN	ALICE CALHOUN	1121 NORTHWOOD RD APT 237E SEAL BEACH CA 907403337	SE	0.23 / 1,223.86	-6	239

Executive Summary: Summary by Data Source

Standard

Federal

RCRA LQG - RCRA Generator List

A search of the RCRA LQG database, dated Sep 5, 2022 has found that there are 2 RCRA LQG site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 90815-0000	W	0.12 / 615.47	56
	<i>EPA Handler ID: CAL000220058</i>			
LONG BEACH USD-TINCHER ELEMENTARY	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.13 / 669.51	108
	<i>EPA Handler ID: CAD981421191</i>			

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Sep 5, 2022 has found that there are 1 RCRA SQG site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL)	1100 IROQUIOS AVENUE LONG BEACH CA 90815-0000	W	0.20 / 1,035.50	77
	<i>EPA Handler ID: CAD981419849</i>			

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Sep 5, 2022 has found that there are 52 RCRA NON GEN site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WILLIAM WITT	6841 E MANTOVA ST LONG BEACH CA 90815-4916	NNE	0.20 / 1,067.32	5
	<i>EPA Handler ID: CAC003061611</i>			
BICH DANG	6902 E DE LEON ST LONG BEACH CA 90815	NNE	0.20 / 1,074.09	8
	<i>EPA Handler ID: CAC003023013</i>			
ROBERT ANDERSON	872 N KAREN WAY LONG BEACH CA 90815	S	0.20 / 1,048.98	9
	<i>EPA Handler ID: CAC003022678</i>			
ROSA TRUJILLO	6835 E DE LEON ST LONG BEACH CA 90815-4908	NNE	0.18 / 925.38	10
	<i>EPA Handler ID: CAC003061754</i>			

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
ELNA ANDERSON	860 STEVELY AVE LONG BEACH CA 90815	SSE	0.24 / 1,259.53	11
	<i>EPA Handler ID: CAC003026455</i>			
SUSAN MURRAY	6718 EAST MANTOVA ST. LONG BEACH CA 90815	NW	0.07 / 347.29	15
	<i>EPA Handler ID: CAC002978775</i>			
CHARLES D CLAY AND PATRICIA C CLAY	6719 E MANTOVA ST LONG BEACH CA 90815	NW	0.06 / 317.00	19
	<i>EPA Handler ID: CAC003178326</i>			
VICTORIA BILLIT	6911 EAST BACARRO STREET LONG BEACH CA 90815-4806	NNE	0.16 / 861.02	22
	<i>EPA Handler ID: CAC002984547</i>			
ANDY OLIVER	865 KALLIN AVENUE LONG BEACH CA 90815	SW	0.09 / 458.63	28
	<i>EPA Handler ID: CAC003096588</i>			
CHRIS SULSONA	845 STEVELY AVE LONG BEACH CA 90815	S	0.20 / 1,066.69	29
	<i>EPA Handler ID: CAC003023104</i>			
LYNN GAY	845 ROXANNE AVENUE LONG BEACH CA 90815	SSW	0.13 / 678.37	31
	<i>EPA Handler ID: CAC002993484</i>			
KYLE GIPSON	856 KALLIN AVENUE LONG BEACH CA 90815	SW	0.08 / 441.83	33
	<i>EPA Handler ID: CAC003068735</i>			
GEORGE BALDERAS	6861 E ROXANNE WAY LONG BEACH CA 90815	S	0.16 / 848.49	35
	<i>EPA Handler ID: CAC003174068</i>			
KIER DELEO	833 ROXANNE AVENUE LONG BEACH CA 90815	SSW	0.13 / 678.97	37
	<i>EPA Handler ID: CAC003183756</i>			
KIER DELEO	833 ROXANNE AVE LONG BEACH CA 90815	SSW	0.13 / 678.97	37
	<i>EPA Handler ID: CAC003189235</i>			
RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815	S	0.18 / 931.36	40

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>EPA Handler ID: CAC003055094</i>			
RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815	S	0.18 / 931.36	40
	<i>EPA Handler ID: CAC003055228</i>			
MONICA OR RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815-5015	S	0.18 / 931.36	40
	<i>EPA Handler ID: CAC003057533</i>			
DEBORAH DELFS	6920 E DRISCOLL ST LONG BEACH CA 90815-4809	NNE	0.17 / 918.82	43
	<i>EPA Handler ID: CAC003029887</i>			
SHERRY SPAN	6934 E DRISCOLL STREET LONG BEACH CA 90815	NNE	0.20 / 1,039.84	44
	<i>EPA Handler ID: CAC003120662</i>			
PATRICIA & STEVE WILLIAMS	6854 E DRISCOLL ST LONG BEACH CA 90815	NNE	0.13 / 670.67	45
	<i>EPA Handler ID: CAC003072165</i>			
ROBIN LOVELY	6707 E. BACARRO ST LONG BEACH CA 90815	NNW	0.04 / 196.39	55
	<i>EPA Handler ID: CAC003091084</i>			
SILVIA GARBIN	830 LEES AVENUE LONG BEACH CA 90815	SSW	0.03 / 156.18	58
	<i>EPA Handler ID: CAC003164980</i>			
MARK NAITHAUS	6890 E LEES WAY LONG BEACH CA 90815-5011	S	0.09 / 457.85	65
	<i>EPA Handler ID: CAC003038990</i>			
RON HODGE	6521 E DE LEON ST LONG BEACH CA 90815-4628	WNW	0.14 / 750.11	69
	<i>EPA Handler ID: CAC003041583</i>			
EVAN BADER	144 HARVARD LN SEAL BEACH CA 90740-2509	SE	0.18 / 931.62	70
	<i>EPA Handler ID: CAC003026971</i>			
LISA WICKER	6510 E DE LEON ST LONG BEACH CA 90815	WNW	0.15 / 805.70	72
	<i>EPA Handler ID: CAC002984551</i>			

Site	Address	Direction	Distance (mi/ft)	Map Key
BEN MORGAN	6734 E DRISCOLL ST LONG BEACH CA 90815	NNW	0.08 / 410.87	73
	<i>EPA Handler ID: CAC003114388</i>			
KATHLEEN TOBIN	1602 PATTIZ AVE LONG BEACH CA 90815	NNE	0.19 / 1,024.95	76
	<i>EPA Handler ID: CAC003167012</i>			
ROBERT ARBOIT	133 HARVARD LANE SEAL BEACH CA 90740	SE	0.14 / 720.63	83
	<i>EPA Handler ID: CAC002977190</i>			
CHERI SWATEK	6921 E SEPTIMO ST LONG BEACH CA 90815-5021	S	0.04 / 216.84	85
	<i>EPA Handler ID: CAC003062443</i>			
LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 90815-0000	WSW	0.17 / 898.10	94
	<i>EPA Handler ID: CAL000200686</i>			
KRISTIN & JUSTIN PYUN	1632 PETALUMA AVE LONG BEACH CA 90815	N	0.06 / 291.34	95
	<i>EPA Handler ID: CAC003193169</i>			
DAVID SAZEGAR	6810 SEPTIMO AVE LONG BEACH CA 90815	SSW	0.02 / 116.29	96
	<i>EPA Handler ID: CAC002981934</i>			
SHELDON GEBB	6450 EAST MANTOVA STREET LONG BEACH CA 90815	WNW	0.22 / 1,186.46	100
	<i>EPA Handler ID: CAC003160220</i>			
KUBIEK, PAUL	121 STANFORD LANE SEAL BEACH CA 90740	SE	0.15 / 792.56	101
	<i>EPA Handler ID: CAC002982019</i>			
FRANCIS BETTIS	7011 E EL CEDRAL ST LONG BEACH CA 90815	NNE	0.18 / 952.64	104
	<i>EPA Handler ID: CAC003139802</i>			
FRANCIS BETTIS	7011 E EL CEDRAL STREET LONG BEACH CA 90815	NNE	0.18 / 952.64	104
	<i>EPA Handler ID: CAC003106031</i>			
STEVE JONES	108 HARVARD LN SEAL BEACH CA 90740-2509	SE	0.10 / 526.86	106
	<i>EPA Handler ID: CAC003057488</i>			

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FEDERICO & NANCY JIMENEZ	117 YALE LANE SEAL BEACH CA 90740 <i>EPA Handler ID: CAC003051585</i>	SE	0.20 / 1,047.36	107
CHRISTY HOOVER	112 STANFORDLN SEAL BEACH CA 90740 <i>EPA Handler ID: CAC002981167</i>	SE	0.16 / 858.47	109
DAN MCDONALD	6958 EAST EL CEDRAL ST LONG BEACH CA 90815 <i>EPA Handler ID: CAC003135744</i>	NNE	0.12 / 611.83	114
MICHELLE THOMPSON	6441 E BIXBY HILL RD LONG BEACH CA 90815-4708 <i>EPA Handler ID: CAC003029277</i>	WSW	0.19 / 987.76	117
CHAVEZ, MARK	6291 E. DRISCOLL STREET LONG BEACH CA 90815 <i>EPA Handler ID: CAC002976661</i>	NW	0.24 / 1,264.60	120
THOMAS J KAMPWIRTH TR	149 COLLEGE PARK DR SEAL BEACH CA 90740 <i>EPA Handler ID: CAC003192748</i>	SE	0.18 / 951.16	121
GABRIEL COHEN	1735 VUELTA GRANDE AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003074639</i>	NNW	0.19 / 989.63	131
NEW CINGULAR WIRELESS PCS LLC	698 STUDEBAKER RD LONG BEACH CA 90803 <i>EPA Handler ID: CAL000454395</i>	SSW	0.15 / 796.77	135
TRACE EDWARDS	1833 NIPOMO AVE LONG BEACH CA 90815 <i>EPA Handler ID: CAC003069451</i>	NNW	0.16 / 860.62	138
ALBERT COMIA	13020 OAK HILLS DR UNIT 225-F SEAL BEACH CA 90740-3288 <i>EPA Handler ID: CAC003030141</i>	SE	0.16 / 868.38	139
NEIL ARONOW	13020 OAK HILLS DR UNIT 225G SEAL BEACH CA 90740 <i>EPA Handler ID: CAC003139068</i>	SE	0.16 / 868.38	139
CAROL COX	1060 BROOKLINE RD #212A SEAL BEACH CA 90740	SSE	0.10 / 551.11	141

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>EPA Handler ID: CAC003166833</i>			
TOM DUCKWORTH	1123 NORTHWOOD 236H SEAL BEACH CA 90740	SE	0.23 / 1,222.41	151
	<i>EPA Handler ID: CAC002988008</i>			

ERNS - Emergency Response Notification System

A search of the ERNS database, dated Aug 28, 2022 has found that there are 2 ERNS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	6702 EAST MANTOVA STREET LONG BEACH CA	NW	0.04 / 193.64	26
	<i>NRC Report No: 549122</i>			
	6463 BIXBY TERRACE DR LONG BEACH CA	SW	0.16 / 820.56	130
	<i>NRC Report No: 1035531</i>			

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Oct 17, 2022 has found that there are 4 ENVIROSTOR site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HILL MIDDLE SCHOOL GYMNASIUM PROJECT	1100 IROQUOIS AVENUE LONG BEACH CA 90815	WSW	0.07 / 357.72	50
	<i>Estor/EPA ID Cleanup Status: 60002322 NO FURTHER ACTION AS OF 1/19/2018</i>			
EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.08 / 419.90	105
	<i>Estor/EPA ID Cleanup Status: 19820023 NO ACTION REQUIRED AS OF 2/11/2000</i>			
EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.11 / 583.79	110
	<i>Estor/EPA ID Cleanup Status: 19820122 NO ACTION REQUIRED AS OF 2/11/2000</i>			
EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803	SSW	0.11 / 581.13	129
	<i>Estor/EPA ID Cleanup Status: 19130113 INACTIVE - ACTION REQUIRED AS OF 9/9/2020</i>			

LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Jul 25, 2022 has found that there are 2 LUST site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RETIREMENT HOUSING FOUNDATION	911 STUDEBAKER ROAD LONG BEACH CA 90815	W	0.01 / 35.13	23
<i>Global ID Status Status Date: T0603795885 COMPLETED - CASE CLOSED 12/11/2013</i>				
LA COUNTY PUBLIC WORKS - ALAMITOS YARD	881 IROQUOIS ST. LONG BEACH CA 90815	WSW	0.18 / 934.50	89
<i>Global ID Status Status Date: T0603727690 COMPLETED - CASE CLOSED 8/23/2006</i>				

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 3 HHSS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA 90815	W	0.01 / 32.09	12
LOS ALTOS PUMP PLANT	6560 ANAHEIM RD. LONG BEACH CA 90815	W	0.12 / 615.47	56
ALAMITOS YARD	881 IROQUOIS AVENUE LONG BEACH CA 90815	WSW	0.17 / 898.10	94

UST SWEEPS - Statewide Environmental Evaluation and Planning System

A search of the UST SWEEPS database, dated Oct 1, 1994 has found that there are 3 UST SWEEPS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA	W	0.01 / 32.09	12
<i>C C Status: A19-060-17444 ACTIVE Tank ID: 000003, 000001, 000002</i>				
LOS ALTOS PUMPING PLANT	6560 ANAHEIM RD LONG BEACH CA	W	0.12 / 615.47	56
<i>C C Status: A19-060-34054 ACTIVE Tank ID: 000001</i>				
ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA	WSW	0.17 / 898.10	94
<i>C C Status: A19-060-34055 ACTIVE Tank ID: 000001</i>				

DELISTED TNK - Delisted Storage Tanks

A search of the DELISTED TNK database, dated Oct 6, 2022 has found that there are 1 DELISTED TNK site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LOS ALTOS PUMPING PLANT	6560 ANAHEIM ROAD Long Beach CA 90815	W	0.12 / 615.47	56

HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary

A search of the HIST TANK database, dated May 27, 1988 has found that there are 3 HIST TANK site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SERVICE STATION 4849	1190 STUDEBAKER RD LONG BEACH CA	W	0.01 / 32.09	12
LOS ALTOS PUMP PLANT	6560 ANAHEIM RD. LONG BEACH CA	W	0.20 / 1,053.09	79
ALAMITOS YARD	881 IROQUOIS AVENUE LONG BEACH CA	WSW	0.17 / 898.10	94

VCP - Voluntary Cleanup Program

A search of the VCP database, dated Oct 17, 2022 has found that there are 1 VCP site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803	SSW	0.11 / 581.13	129

Estor/EPA ID | Cleanup Status: 19130113 | INACTIVE - ACTION REQUIRED AS OF 9/9/2020

County

HMS LA - Los Angeles County - HMS List

A search of the HMS LA database, dated Nov 5, 2020 has found that there are 2 HMS LA site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	6560 E ANAHEIM RD LONG BEACH CA 90815	W	0.03 / 172.83	30
	881 N IROQUOIS ST LONG BEACH CA 90815	WSW	0.19 / 994.31	98

UST LONGB - Los Angeles County - Long Beach UST List

A search of the UST LONGB database, dated Jul 9, 2018 has found that there are 2 UST LONGB site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LA County Public Works	6560 E Anaheim RD Long Beach CA	W	0.03 / 172.83	30
LA County Public Works	6560 E Anaheim RD Long Beach CA	W	0.03 / 172.83	30

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Nov 2, 2020 has found that there are 41 FINDS/FRS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WILLIAM WITT	6841 E MANTOVA ST LONG BEACH CA 90815-4916	NNE	0.20 / 1,067.32	5
	<i>Registry ID: 110070806577</i>			
BICH DANG	6902 E DE LEON ST LONG BEACH CA 90815	NNE	0.20 / 1,074.09	8
	<i>Registry ID: 110070586477</i>			
ROBERT ANDERSON	872 N KAREN WAY LONG BEACH CA 90815	S	0.20 / 1,048.98	9
	<i>Registry ID: 110070586181</i>			
ROSA TRUJILLO	6835 E DE LEON ST LONG BEACH CA 90815-4908	NNE	0.18 / 925.38	10
	<i>Registry ID: 110070806129</i>			
ELNA ANDERSON	860 STEVELY AVE LONG BEACH CA 90815	SSE	0.24 / 1,259.53	11
	<i>Registry ID: 110070651818</i>			
7-ELEVEN INC. STORE #27017	1190 N STUDEBAKER RD LONG BEACH CA 90815	W	0.00 / 24.43	14
	<i>Registry ID: 110064933425</i>			
SUSAN MURRAY	6718 EAST MANTOVA ST. LONG BEACH CA 90815	NW	0.07 / 347.29	15
	<i>Registry ID: 110070437103</i>			
VICTORIA BILLIT	6911 EAST BACARRO STREET LONG BEACH CA 90815-4806	NNE	0.16 / 861.02	22
	<i>Registry ID: 110070406832</i>			

Site	Address	Direction	Distance (mi/ft)	Map Key
RETIREMENT HOUSING FOUNDATION	911 STUDEBAKER ROAD LONG BEACH CA 90815	W	0.01 / 35.13	23
	Registry ID: 110065304744			
CARLEN ENTERPRISES	1000 N. STUDEBAKER RD. LONG BEACH CA 90815-	WSW	0.00 / 20.06	24
	Registry ID: 110022300794			
CHRIS SULSONA	845 STEVELY AVE LONG BEACH CA 90815	S	0.20 / 1,066.69	29
	Registry ID: 110070586556			
LYNN GAY	845 ROXANNE AVENUE LONG BEACH CA 90815	SSW	0.13 / 678.37	31
	Registry ID: 110070512892			
RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815	S	0.18 / 931.36	40
	Registry ID: 110070726804			
MONICA OR RAQUEL BLUMENFIELD	6880 E ROXANNE WAY LONG BEACH CA 90815	S	0.18 / 931.36	40
	Registry ID: 110070807526			
DEBORAH DELFS	6920 E DRISCOLL ST LONG BEACH CA 90815-4809	NNE	0.17 / 918.82	43
	Registry ID: 110070661070			
LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 90815-0000	W	0.12 / 615.47	56
	Registry ID: 110070451538			
LORNA ROLAND	830 LEES AVE LONG BEACH CA 90815	SSW	0.03 / 156.18	58
	Registry ID: 110011584918			
MARK NAITHAUS	6890 E LEES WAY LONG BEACH CA 90815-5011	S	0.09 / 457.85	65
	Registry ID: 110070653281			
RON HODGE	6521 E DE LEON ST LONG BEACH CA 90815-4628	WNW	0.14 / 750.11	69
	Registry ID: 110070650949			
EVAN BADER	144 HARVARD LN SEAL BEACH CA 90740-2509	SE	0.18 / 931.62	70
	Registry ID: 110070651846			

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LISA WICKER	6510 E DE LEON ST LONG BEACH CA 90815 <i>Registry ID: 110070406836</i>	WNW	0.15 / 805.70	<u>72</u>
LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL)	1100 IROQUIOS AVENUE LONG BEACH CA 90815-4649 <i>Registry ID: 110002699615</i>	W	0.20 / 1,035.50	<u>77</u>
ROBERT ARBOIT	133 HARVARD LANE SEAL BEACH CA 90740 <i>Registry ID: 110070465779</i>	SE	0.14 / 720.63	<u>83</u>
CHERI SWATEK	6921 E SEPTIMO ST LONG BEACH CA 90815-5021 <i>Registry ID: 110070803562</i>	S	0.04 / 216.84	<u>85</u>
LA COUNTY PUBLIC WORKS - ALAMITOS YARD	881 IROQUOIS ST. LONG BEACH CA 90815 <i>Registry ID: 110066812729</i>	WSW	0.18 / 934.50	<u>89</u>
LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 90815-0000 <i>Registry ID: 110070447728</i>	WSW	0.17 / 898.10	<u>94</u>
DAVID SAZEGAR	6810 SEPTIMO AVE LONG BEACH CA 90815 <i>Registry ID: 110070437656</i>	SSW	0.02 / 116.29	<u>96</u>
KUBIEK, PAUL	121 STANFORD LANE SEAL BEACH CA 90740 <i>Registry ID: 110070438262</i>	SE	0.15 / 792.56	<u>101</u>
STEVE JONES	108 HARVARD LN SEAL BEACH CA 90740-2509 <i>Registry ID: 110070804861</i>	SE	0.10 / 526.86	<u>106</u>
FEDERICO & NANCY JIMENEZ	117 YALE LANE SEAL BEACH CA 90740 <i>Registry ID: 110070718028</i>	SE	0.20 / 1,047.36	<u>107</u>
LONG BEACH USD-TINCHER ELEMENTARY	1701 PETALUMA AVENUE LONG BEACH CA 90815-4855 <i>Registry ID: 110002700239</i>	NNW	0.13 / 669.51	<u>108</u>
CHRISTY HOOVER	112 STANFORDLN SEAL BEACH CA 90740	SE	0.16 / 858.47	<u>109</u>

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>Registry ID: 110070438021</i>			
MICHELLE THOMPSON	6441 E BIXBY HILL RD LONG BEACH CA 90815-4708	WSW	0.19 / 987.76	117
	<i>Registry ID: 110070655220</i>			
CHAVEZ, MARK	6291 E. DRISCOLL STREET LONG BEACH CA 90815	NW	0.24 / 1,264.60	120
	<i>Registry ID: 110070465271</i>			
LOS ALAMITOS PRESSURE STATION	HWY. 22 & STUDEBAKER LONG BEACH CA 90802	S	0.07 / 346.73	127
	<i>Registry ID: 110065884902</i>			
VETERANS HEALTH CARE SYSTEM LONG BEACH	6901 EAST 7TH STREET LONG BEACH CA 90815	SW	0.14 / 753.40	132
	<i>Registry ID: 110042340375</i>			
STEPHANIE ROHR	1040 FOXBURG #21G SEAL BEACH CA 90740	SE	0.07 / 351.80	134
	<i>Registry ID: 110070462591</i>			
NEW CINGULAR WIRELESS PCS LLC	698 STUDEBAKER RD LONG BEACH CA 90803	SSW	0.15 / 796.77	135
	<i>Registry ID: 110070797235</i>			
ALBERT COMIA	13020 OAK HILLS DR SEAL BEACH CA 90740-3288	SE	0.16 / 868.38	139
	<i>Registry ID: 110070655260</i>			
DONNA WENRICH	13061 OAK HILL DRIVE #221-L SEAL BEACH CA 90740	SE	0.18 / 967.55	143
	<i>Registry ID: 110070439312</i>			
TOM DUCKWORTH	1123 NORTHWOOD 236H SEAL BEACH CA 90740	SE	0.23 / 1,225.06	153
	<i>Registry ID: 110070441615</i>			

ICIS - Integrated Compliance Information System (ICIS)

A search of the ICIS database, dated Oct 15, 2022 has found that there are 1 ICIS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
VETERANS HEALTH CARE SYSTEM LONG BEACH	6901 EAST 7TH STREET LONG BEACH CA 90815	SW	0.14 / 753.40	132
	<i>Registry ID: 110042340375</i>			

State

SCH - School Property Evaluation Program Sites

A search of the SCH database, dated Oct 17, 2022 has found that there are 3 SCH site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HILL MIDDLE SCHOOL GYMNASIUM PROJECT	1100 IROQUOIS AVENUE LONG BEACH CA 90815	WSW	0.07 / 357.72	50
<i>Estor/EPA ID Cleanup Status: 60002322 NO FURTHER ACTION AS OF 1/19/2018</i>				
EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.08 / 419.90	105
<i>Estor/EPA ID Cleanup Status: 19820023 NO ACTION REQUIRED AS OF 2/11/2000</i>				
EUGENE TINCHER SCHOOL SITE	1701 PETALUMA AVENUE LONG BEACH CA 90815	NNW	0.11 / 583.79	110
<i>Estor/EPA ID Cleanup Status: 19820122 NO ACTION REQUIRED AS OF 2/11/2000</i>				

CHMIRS - California Hazardous Material Incident Report System (CHMIRS)

A search of the CHMIRS database, dated Aug 15, 2022 has found that there are 7 CHMIRS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Long Beach Fire	Studebaker Road and Anaheim Road Long Beach CA	W	0.00 / 18.01	20
<i>Control No Notified Date: 09-8465 </i>				
Long Beach Water Dept	6491 Bixby Hill Rd Long Beach CA 90815	SW	0.10 / 530.18	82
<i>Control No Notified Date: 11-1172 </i>				
Long Beach Fire Dept	1501 Josie Ave Long Beach CA	NW	0.22 / 1,173.11	112
<i>Control No Notified Date: 3/23/200203:29:39 PM</i>				
So. CA Edison	6485 Surrey Long Beach CA 91770	SW	0.15 / 807.93	123
<i>Control No Notified Date: 2/11/200301:14:15 PM</i>				
NRC	6463 Bixby Terrace Dr. Long Beach CA	SW	0.16 / 820.56	130
<i>Control No Notified Date: 13-0258 </i>				
City of Long Beach Health Dept	Atherton at Vuelta Grande Long Beach CA	NNW	0.18 / 967.23	133
<i>Control No Notified Date: 12/15/199806:51:48 PM</i>				

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Long Beach Fire	6450 Bixby Terrace Drive Long Beach CA	SW	0.23 / 1,230.37	136

Control No | Notified Date: 09-5247 |

HIST CHMIRS - Historical California Hazardous Material Incident Report System (CHMIRS)

A search of the HIST CHMIRS database, dated Jan 1, 1993 has found that there are 1 HIST CHMIRS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	1080 BROOKLINE RD SEAL BEACH CA	SSE	0.10 / 549.82	140

HAZNET - Handlers from Hazardous Waste Manifest Data

A search of the HAZNET database, dated Oct 24, 2016 has found that there are 19 HAZNET site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LOUIS MOSKOWITC	6811 E 10TH ST LONG BEACH CA 90815	WSW	0.11 / 580.19	4
NATE LEMON	900 STEVELY AVE LONG BEACH CA 908154941	SSE	0.24 / 1,248.14	6
NOELLE MAGUIRE	6736 E EL JARDIN ST LONG BEACH CA 908154911	WNW	0.07 / 381.58	7
SHAWN SCHWARZ	6920 E Bacarro St Long Beach CA 908154805	NNE	0.18 / 971.62	17
PERKOWITZ & RUTH ARCHITECTS, INC.	911 STUDEBAKER RD LONG BEACH CA 908150000	W	0.01 / 35.13	23
MPR INC	911 STUDEBAKER LONG BEACH CA 908150000	W	0.02 / 120.40	27
L A COUNTY PUBLIC WORKS/FLOOD MAINT.	6560 ANAHEIM RD LONG BEACH CA 000000000	W	0.12 / 615.47	56
MARY AND WAYNE JOHNSON	6541 E MANTOVA ST LONG BEACH CA 908154661	WNW	0.11 / 575.91	59
1X HILL JUNIOR HIGH SCHOOL	1100 IROQUOIS AVE. LONG BEACH CA 913010000	W	0.20 / 1,035.50	77

Site	Address	Direction	Distance (mi/ft)	Map Key
HOLLY DAVIS	787 SALIDA AVE LONG BEACH CA 908155017	SSW	0.05 / 263.88	78
1X WACHI, FRANCIS	6530 ESPANITA ST LONG BEACH CA 908154635	NW	0.17 / 900.00	91
DEBBIE TANKERSLEY	6916 E EL ROBLE ST LONG BEACH CA 908154815	N	0.06 / 306.85	99
TORRES, ANGELICA	7032 E. EL CEDRAL ST. LONG BEACH CA 90815	NNE	0.22 / 1,147.28	103
BERNADINE KUSSMAN	6431 E BIXBY HILL RD. LONG BEACH CA 90815	WSW	0.20 / 1,057.87	118
PHIL MORRILL	156 COLLEGE PARK DR SEAL BEACH CA 90740	SE	0.20 / 1,046.24	122
1X SEAGER, PAM	6400 BIXBY HILL RD LONG BEACH CA 908150000	WSW	0.22 / 1,172.00	124
KEN STUTZMAN	1830 STEVELY AVE LONG BEACH CA 90815	NNE	0.25 / 1,297.41	137
RYAN MCMULLAN	1903 VUELTA GRANDE AVE LONG BEACH CA 90815	NNW	0.24 / 1,266.87	146
LEISURE WORLD, INC	1280 SCIOTO RD SEAL BEACH CA 90790	SE	0.23 / 1,202.46	147

HAZ GEN - Generators from Hazardous Waste Manifest Data

A search of the HAZ GEN database, dated Dec 31, 2017 has found that there are 75 HAZ GEN site(s) within approximately 0.250 miles of the project property.

Site	Address	Direction	Distance (mi/ft)	Map Key
COLUMBIA MEDICAL BUILDING PHARMACY	6880 E 10TH ST LONG BEACH CA 908154930	S	0.19 / 977.48	1
BEAUCHAMP, DONALD	6840 E. 10TH STREET LONG BEACH CA 90815	SW	0.14 / 750.75	2
JACQUELINE BEAUCHAMP	6840 E 10TH ST LONG BEACH CA 90815	SW	0.14 / 750.75	2

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
GLYNN, PETER & EMILY	6810 E 11TH ST LONG BEACH CA 908154934	W	0.11 / 564.87	<u>3</u>
NATE LEMON	900 STEVELY AVE LONG BEACH CA 908154941	SSE	0.24 / 1,248.14	<u>6</u>
MARIE BENSON	881 KALLIN AVE. LONG BEACH CA 90815	SW	0.08 / 421.70	<u>13</u>
JENNIFER JONES	876 KALLIN LONG BEACH CA 90815	SW	0.09 / 452.12	<u>16</u>
KEVIN HUGHES	864 ROXANNE AVE LONG BEACH CA 908155013	SSW	0.14 / 723.79	<u>18</u>
KATHRYN & STEVEN BRADLEY	6935 E BACARRO ST LONG BEACH CA 908154806	NNE	0.21 / 1,083.56	<u>21</u>
S S MECHANICAL INC	6630 EAST ANAHEIM RD LONG BEACH CA 90815	W	0.02 / 85.80	<u>25</u>
L A COUNTY PUBLIC WORKS/FLOOD MAINT.	6560 E ANAHEIM RD LONG BEACH CA 908150000	W	0.03 / 172.83	<u>30</u>
JEAN TANAKA	836 STEVELY AVE LONG BEACH CA 90815	SSE	0.21 / 1,114.81	<u>32</u>
FERGUSON, EILEEN	1283 N STUDEBAKER RD LONG BEACH CA 908154831	NW	0.01 / 31.28	<u>34</u>
ROBERT BRIESTER	6871 E ROXANNE WAY LONG BEACH CA 908155016	S	0.17 / 882.85	<u>36</u>
JEAN BAUER	6870 E ROXANNE WAY LONG BEACH CA 908155015	S	0.17 / 873.52	<u>38</u>
BATES CARL & CATHY 44- 100404	824 STEVELY AVE LONG BEACH CA 90816	S	0.19 / 980.70	<u>39</u>
GRUNEWALD, CARMEN	6825 E. ESPANITA ST. LONG BEACH CA 90815	N	0.07 / 360.52	<u>41</u>

Site	Address	Direction	Distance (mi/ft)	Map Key
HUE DANG	833 KALLIN AVE LONG BEACH CA 90815	SSW	0.08 / 414.20	42
DAVID YZIAS	6946 E DRISCOLL AVE LONG BEACH CA 90815	NE	0.22 / 1,165.14	46
LINDA DAVIS	850 LEES AVE LONG BEACH CA 90815	SW	0.03 / 160.52	47
JONATHAN BRIMLEY	6947 E DRISCOLL ST LONG BEACH CA 908154810	NE	0.22 / 1,160.87	48
KATHERINE MALONE	846 LEES AVENUE LONG BEACH CA 90815	SW	0.03 / 160.34	49
RUSINAS, PATRICIA	6817 E DRISCOLL ST LONG BEACH CA 908154808	N	0.06 / 300.31	51
BRYAN RUSSEL	6841 E KALLIN WAY LONG BEACH CA 908155007	S	0.11 / 592.73	52
ANDREA GOESCH	6860 E KALLIN WAY LONG BEACH CA 90815	S	0.13 / 704.77	53
ALONSO DELGADO	834 LEES AVENUE LONG BEACH CA 90815	SSW	0.03 / 160.18	54
LA COUNTY, LOS ALTOS PP	6560 ANAHEIM RD LONG BEACH CA 908150000	W	0.12 / 615.47	56
WILLIAM ELGIN	6701 BACARRO ST LONG BEACH CA 90815	NNW	0.04 / 219.01	57
DAVE GARBIN	830 LEES AVE LONG BEACH CA 908155010	SSW	0.03 / 156.18	58
DIANA FICKLIN	6957 E GOLDCREST ST LONG BEACH CA 90815	NNE	0.13 / 705.67	60
VALERIE EDEN BEACHLEY	1414 VUELTA GRANDE AVE LONG BEACH CA 90815	NW	0.07 / 366.36	61

Site	Address	Direction	Distance (mi/ft)	Map Key
QUINALTY TERRY 44-85145	821 LEES AVENUE LONG BEACH CA 90815	SSW	0.03 / 140.94	62
L.A.COUNTY PUBLIC WORKS FLOOD MAINT.	6560 ANAHEIM LONG BEACH CA 908150000	SW	0.04 / 201.92	63
JOHN HAUCK	161 HARVARD LN SEAL BEACH CA 907402508	SE	0.21 / 1,110.03	64
CASSIE HALVORSON	6710 E ESPANITA ST LONG BEACH CA 908154851	NNW	0.08 / 430.13	66
SARAH PETERSON	6710 E ESPANITA ST LONG BEACH CA 908154851	NNW	0.08 / 430.13	66
REED, PATRICIA	153 HARVARD LN SEAL BEACH CA 907402508	SE	0.19 / 1,010.34	67
JOHN THOMETZ	6520 E DELEON ST. LONG BEACH CA 90815	WNW	0.14 / 745.15	68
FRENCH, LAURA	145 HARVARD LN SEAL BEACH CA 907402508	SE	0.17 / 890.37	71
ELINORE RICHARDSON	153 STANFORD LN SEAL BEACH CA 907402533	ESE	0.23 / 1,194.93	74
RAYMON GILBERT	1503 VUELTA GRANDE AVE LONG BEACH CA 90815	NW	0.11 / 590.69	75
LBUSD-HILL MIDDLE SCHOOL	1100 IROQUIOS AVENUE LONG BEACH CA 908150000	W	0.20 / 1,035.50	77
JANET OTTO	6981 E EL ROBLE ST LONG BEACH CA 90815	NNE	0.15 / 798.21	80
KRISTEN NEWMAN	6471 E EL JARDIN STREET LONG BEACH CA 90815	W	0.19 / 1,026.75	81
MESSINGER, MARK	141 STANFORD LN SEAL BEACH CA 907402533	SE	0.20 / 1,047.47	84

Site	Address	Direction	Distance (mi/ft)	Map Key
MELVIN KANTZ	6911 EAST SEPTIMO STREET LONG BEACH CA 90815	S	0.04 / 207.58	<u>86</u>
KEN GENTILE	6890 E. SEPTIMO ST. LONG BEACH CA 90815	S	0.04 / 189.66	<u>87</u>
MANUEL LOPEZ	6860 E SEPTIMO ST LONG BEACH CA 908155018	S	0.04 / 187.85	<u>88</u>
HAROLD SEIFER	6471 E MANTOVA ST LONG BEACH CA 90815	WNW	0.20 / 1,066.87	<u>90</u>
JAMIL & SIHAM BUDEIRI	871 N RANCHO DR LONG BEACH CA 90815	WSW	0.13 / 712.64	<u>92</u>
ANITA PATTEN	1411 JOSIE AVENUE LONG BEACH CA 90815	WNW	0.19 / 1,014.89	<u>93</u>
LACDPW ALAMITOS YARD	881 IROQUOIS AVE LONG BEACH CA 908150000	WSW	0.17 / 898.10	<u>94</u>
MATTHEW ROPPO	125 STANFORD LN SEAL BEACH CA 907402533	SE	0.16 / 857.16	<u>97</u>
BLEEKER GRAHAM	113 HARVARD LN SEAL BEACH CA 907402508	SE	0.10 / 541.47	<u>102</u>
LBUSD-TINCHER ELEMENTARY	1701 PETALUMA AVE LONG BEACH CA 908154855	NNW	0.13 / 669.51	<u>108</u>
LONG BCH USD/TINCHER ELEM SCH	1701 PETALUMA AVE LONG BEACH CA 908150000	NNW	0.13 / 669.51	<u>108</u>
ROD JUNE	113 YALE LN SEAL BEACH CA 907402521	SE	0.19 / 1,022.04	<u>111</u>
DAN MCDONALD	6958 E. EL CEDRAL STREET LONG BEACH CA 90815	NNE	0.12 / 610.94	<u>113</u>
FOSTER, MERLE	6510 E DRISCOLL ST LONG BEACH CA 908154630	NW	0.22 / 1,147.29	<u>115</u>

Site	Address	Direction	Distance (mi/ft)	Map Key
CARRIE MARINOW	108 YALE LN SEAL BEACH CA 90740	SE	0.20 / 1,044.78	116
VANWEY, STEVEN	116 COLLEGE PARK DR SEAL BEACH CA 907402502	SE	0.08 / 424.54	119
GANI VOHRA	6484 E SURREY DR LONG BEACH CA 90815	SW	0.15 / 769.42	125
DON FRIZZELL	6485 E SURREY DR LONG BEACH CA 908154744	SW	0.15 / 795.56	126
MARK SUDOCK	404 PURDUE CIR SEAL BEACH CA 907402516	SE	0.12 / 640.05	128
BILL HAMILTON	1080 BROOKLINE RD APT 213A SEAL BEACH CA 907403271	SSE	0.10 / 549.82	140
STEPHEN J LOPEZ	1100 BROOKLINE RD UNIT 222-A SEAL BEACH CA 90740	SSE	0.11 / 604.21	142
LUKA SIDARONS	13081 OAK HILLS DRIVE #223F SEAL BEACH CA 90740	SE	0.18 / 968.44	144
LYNNE RETMIER	13140 NASSAU DR APT 214B SEAL BEACH CA 907403227	SSE	0.13 / 702.19	145
SARAH & RYAN MCMULLAN	1903 VUELTA GRANDE AVE LONG BEACH CA 90815	NNW	0.24 / 1,266.87	146
GENNI PROGLIO	6931 E FAIRBROOK ST LONG BEACH CA 908153602	N	0.22 / 1,168.50	148
DORIS WEINERT	13121 OAKHILLS RD UNIT 233-F SEAL BEACH CA 90740	SE	0.23 / 1,238.11	149
JIMMIE AKARASRIWON	13101 OAK HILLS DR APT 234G SEAL BEACH CA 907403237	SE	0.24 / 1,254.28	150
BETH MAYER	13101 OAK HILLS DR # 23A SEAL BEACH CA 907403295	SE	0.24 / 1,254.28	150

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
JOHANSEN, RICHARD	1125 NORTHWOOD RD. SEAL BEACH CA 90740	SE	0.23 / 1,226.31	152
ALICE CALHOUN	1121 NORTHWOOD RD APT 237E SEAL BEACH CA 907403337	SE	0.23 / 1,223.86	154

HIST MANIFEST - Historical Hazardous Waste Manifest Data

A search of the HIST MANIFEST database, dated Dec 31, 1992 has found that there are 3 HIST MANIFEST site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	1100 IROQUIOS AVENUE LONG BEACH CA 908150000	W	0.20 / 1,035.50	77
	6530 ESPANITA ST LONG BEACH CA 908154635	NW	0.17 / 900.00	91
	6400 BIXBY HILL RD LONG BEACH CA 908150000	WSW	0.22 / 1,172.00	124

CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites

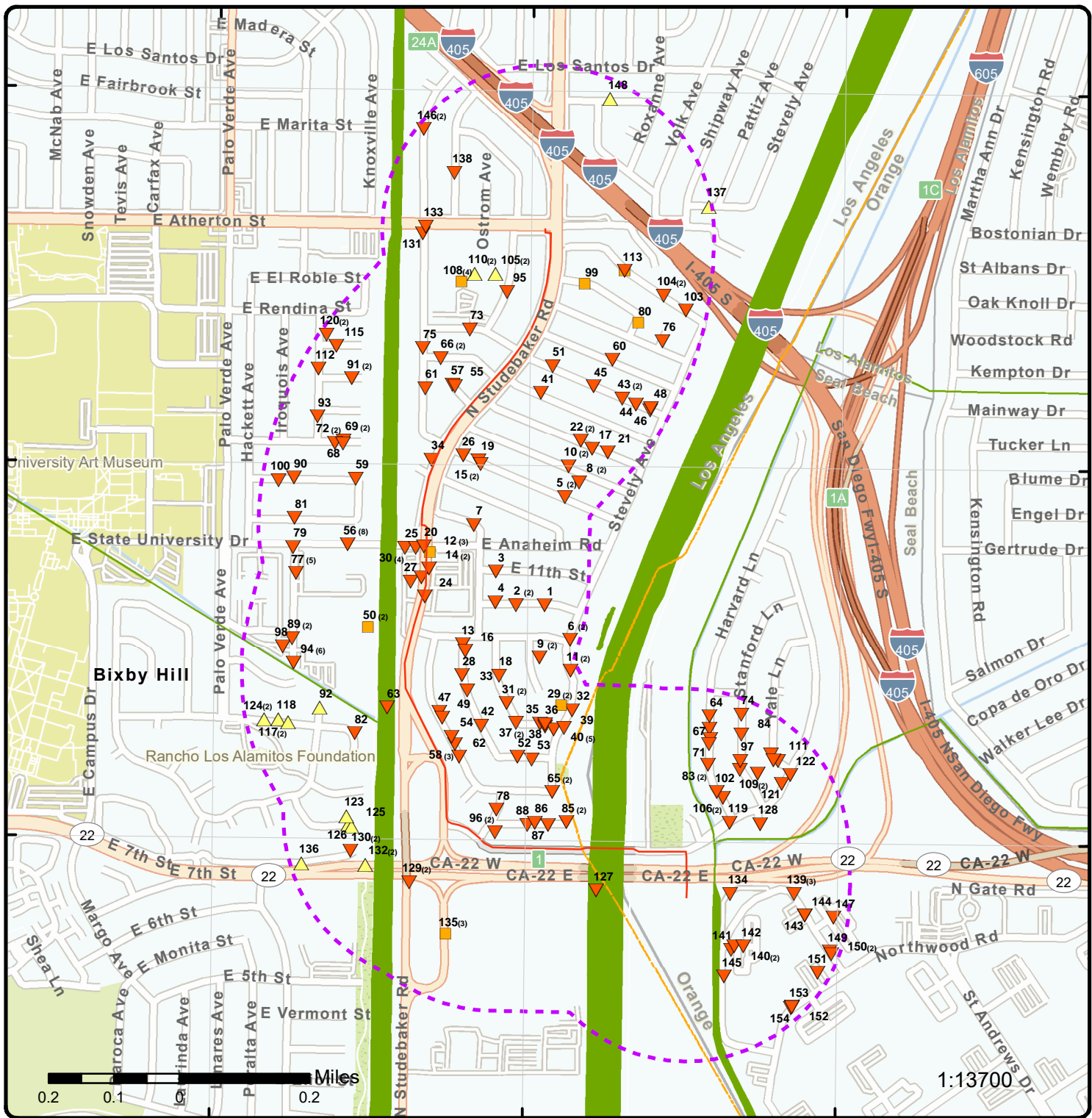
A search of the CERS HAZ database, dated Oct 7, 2022 has found that there are 2 CERS HAZ site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
7-ELEVEN INC. STORE #27017	1190 N STUDEBAKER RD LONG BEACH CA 90815	W	0.00 / 24.43	14
AT&T Mobility - (USID207498)	698 N STUDEBAKER RD LONG BEACH CA 90803	SSW	0.15 / 796.77	135

EMISSIONS - Toxic Pollutant Emissions Facilities

A search of the EMISSIONS database, dated Dec 31, 2020 has found that there are 1 EMISSIONS site(s) within approximately 0.250 miles of the project property.

<u>Site</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LA COUNTY, DEPT OF PUBLIC WORK	6560 ANAHEIM RD LONG BEACH CA	W	0.12 / 615.47	56



Map: 0.25 Mile Radius

Order Number: 22120501310
 Address: n/a, Seal Beach, CA



- | | | | |
|------------------------------|------------------------|---------------------|--|
| Project Property | Buffer Outline | State | FWS Special Designation Areas |
| Sites with Higher Elevation | Freeways; Highways | Country | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation | Traffic Circle; Ramp | National Wetland | Indian Reserve Land |
| Sites with Lower Elevation | Major & Minor Arterial | Plume | 100 Year Flood Zone |
| Sites with Unknown Elevation | Traffic Circle; Ramp | 500 Year Flood Zone | |
| Areas with Higher Elevation | Local Road | | |
| Areas with Same Elevation | Rail | | |
| Areas with Lower Elevation | | | |
| Areas with Unknown Elevation | | | |

118°6'30"W

118°6'W

118°5'30"W

33°47'30"N

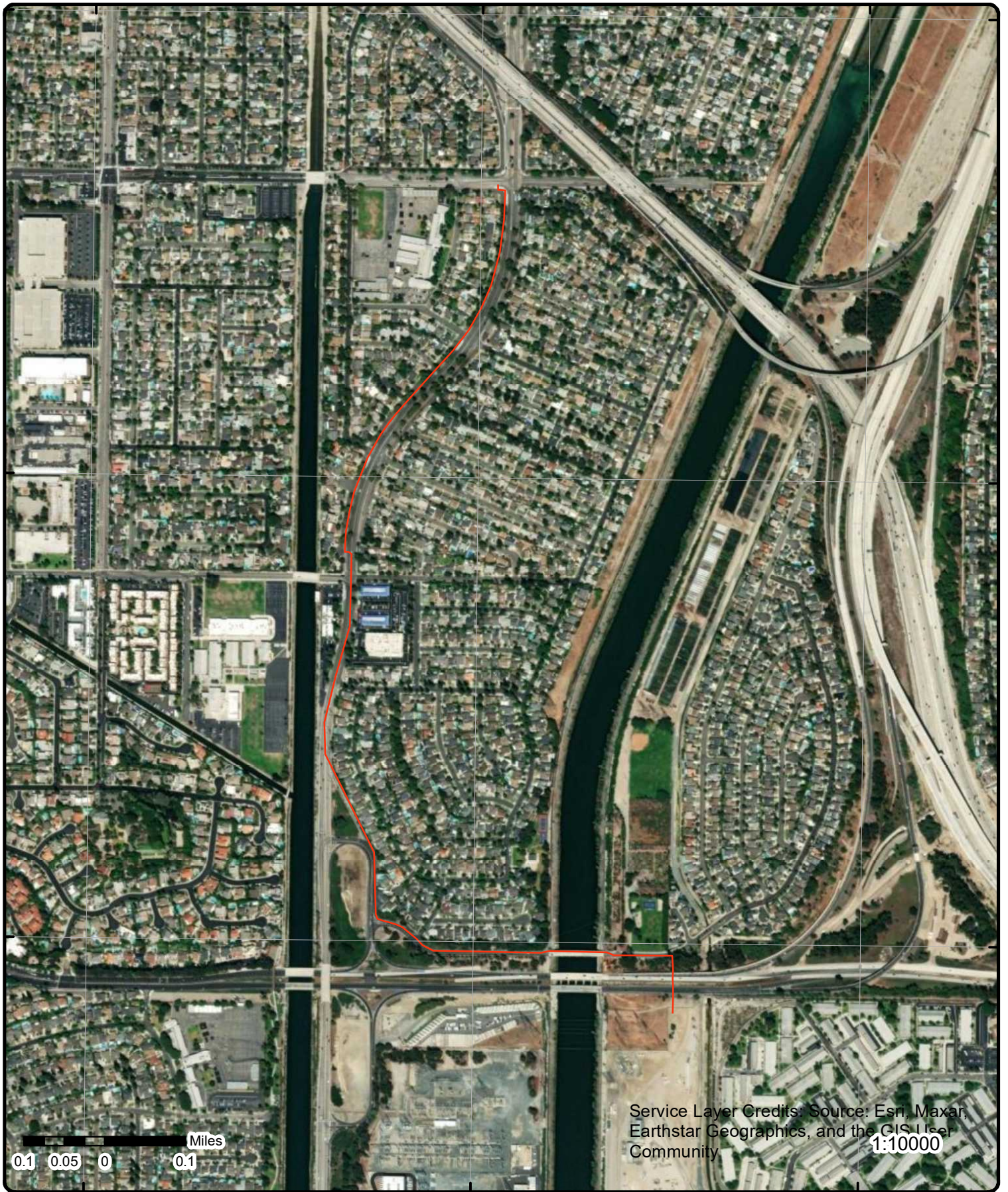
33°47'30"N

33°47'N

33°47'N

33°46'30"N

33°46'30"N



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
 1:10000

Aerial Year: 2021

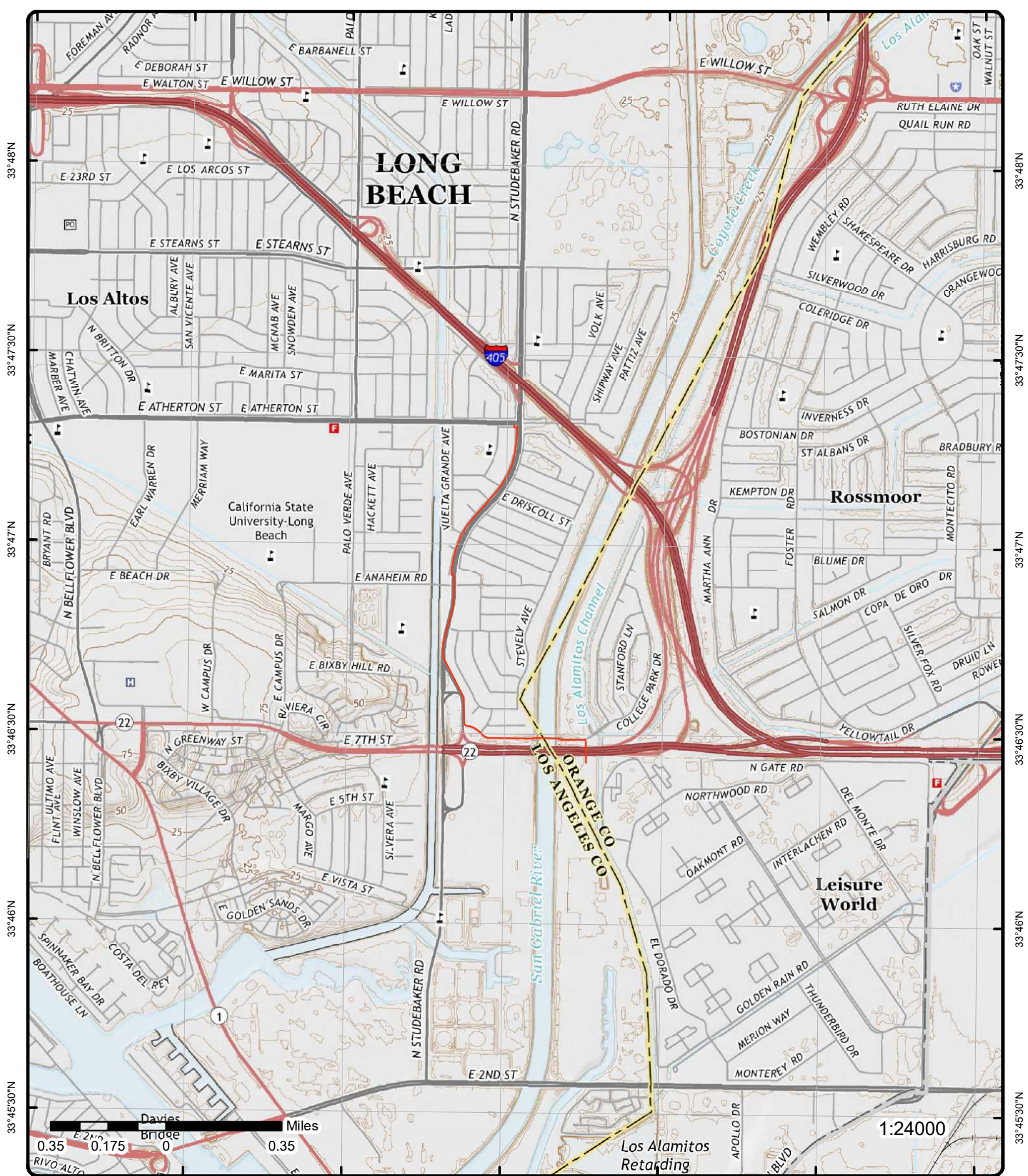
Address: n/a, Seal Beach, CA

Source: ESRI World Imagery

Order Number: 22120501310



© ERIS Information Inc.



Topographic Map

Year: 2015

Order Number: 22120501310

Address: n/a, CA

Quadrangle(s): Los Alamitos, CA

Source: USGS Topographic Map



© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 1	S	0.19 / 977.48	12.23 / -2	COLUMBIA MEDICAL BUILDING PHARMACY 6880 E 10TH ST LONG BEACH CA 908154930	HAZ GEN
Epa ID:		CAC002659023		Facility County:		19
Address 2:				County:		Los Angeles
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002659023				
2	1 of 2	SW	0.14 / 750.75	12.03 / -2	JACQUELINE BEAUCHAMP 6840 E 10TH ST LONG BEACH CA 90815	HAZ GEN
Epa ID:		CAC002835082		Facility County:		19
Address 2:				County:		Los Angeles
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002835082				
2	2 of 2	SW	0.14 / 750.75	12.03 / -2	BEAUCHAMP, DONALD 6840 E. 10TH STREET LONG BEACH CA 90815	HAZ GEN
Epa ID:		CAC002921633		Facility County:		19
Address 2:				County:		Los Angeles
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002921633				
3	1 of 1	W	0.11 / 564.87	11.85 / -2	GLYNN, PETER & EMILY 6810 E 11TH ST LONG BEACH CA 908154934	HAZ GEN
Epa ID:		CAC002810907		Facility County:		19
Address 2:				County:		Los Angeles
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002810907				
4	1 of 1	WSW	0.11 / 580.19	12.11 / -2	LOUIS MOSKOWITC 6811 E 10TH ST LONG BEACH CA 90815	HAZNET
SIC Code:				Mailing City:		LONG BEACH

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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NAICS Code:		Mailing State:	CA			
EPA ID:	CAC002699838	Mailing Zip:	90815			
Create Date:	7/23/2012	Region Code:	3			
Fac Act Ind:	No	Owner Name:	LOUIS MOSKOWITC			
Inact Date:	10/22/2012	Owner Addr 1:	6811 E 10TH ST			
County Code:	19	Owner Addr 2:				
County Name:	Los Angeles	Owner City:	LONG BEACH			
Mail Name:		Owner State:	CA			
Mailing Addr 1:	6811 E 10TH ST	Owner Zip:	90815			
Mailing Addr 2:		Owner Phone:	5624314218			
Owner Fax:						

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002699838>

5	1 of 2	NNE	0.20 / 1,067.32	11.07 / -3	WILLIAM WITT 6841 E MANTOVA ST LONG BEACH CA 90815-4916	RCRA NON GEN
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EPA Handler ID: CAC003061611
Gen Status Universe: No Report
Contact Name: WILLIAM WITT
Contact Address: 6841 E MANTOVA ST , , LONG BEACH , CA, 90815-4916 ,
Contact Phone No and Ext: 760-480-0626
Contact Email: JOHN@MEDBWS.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200327
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20200327
 Handler Name: WILLIAM WITT
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6841 E MANTOVA ST
Name:	WILLIAM WITT	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	760-480-0626	Country:	
Source Type:	Implementer	Zip Code:	90815-4916

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6841 E MANTOVA ST
Name:	WILLIAM WITT	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	760-480-0626	Country:	
Source Type:	Implementer	Zip Code:	90815-4916

5	2 of 2	NNE	0.20 / 1,067.32	11.07 / -3	WILLIAM WITT 6841 E MANTOVA ST LONG BEACH CA 90815-4916	FINDS/FRS
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Registry ID: 110070806577
 FIPS Code: 06037
 HUC Code:
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 10-JUN-20
 Update Date:
 Interest Types: UNSPECIFIED UNIVERSE
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070806577
Program Acronyms:
 RCRAINFO:CAC003061611

6	1 of 2	SSE	0.24 / 1,248.14	12.27 / -2	NATE LEMON 900 STEVELY AVE LONG BEACH CA 908154941	HAZNET
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SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC002771570	Mailing Zip:	908154941
Create Date:	5/16/2014	Region Code:	3
Fac Act Ind:	No	Owner Name:	NATE LEMON
Inact Date:	8/15/2014	Owner Addr 1:	900 STEVELY AVE
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	900 STEVELY AVE	Owner Zip:	908154941
Mailing Addr 2:		Owner Phone:	5095541414
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002771570>

6	2 of 2	SSE	0.24 / 1,248.14	12.27 / -2	NATE LEMON 900 STEVELY AVE LONG BEACH CA 908154941	HAZ GEN
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Epa ID:	CAC002771571	Facility County:	19
Address 2:		County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search		
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002771571		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	1 of 1	WNW	0.07 / 381.58	10.11 / -4	NOELLE MAGUIRE 6736 E EL JARDIN ST LONG BEACH CA 908154911	HAZNET

SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC002799547	Mailing Zip:	908154911
Create Date:	1/9/2015	Region Code:	3
Fac Act Ind:	No	Owner Name:	NOELLE MAGUIRE
Inact Date:	4/10/2015	Owner Addr 1:	6736 E EL JARDIN ST
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	6736 E EL JARDIN ST	Owner Zip:	908154911
Mailing Addr 2:		Owner Phone:	5628572609
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002799547>

8	1 of 2	NNE	0.20 / 1,074.09	13.26 / -1	BICH DANG 6902 E DE LEON ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC003023013
Gen Status Universe:	No Report
Contact Name:	BICH DANG
Contact Address:	6902 E DE LEON ST , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	949-422-7427
Contact Email:	ADMIN@VIKINGENVIRO.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20190708
Location Latitude:	33.783139
Location Longitude:	-118.098574

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190708
Handler Name: BICH DANG
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Other	Street 1:	6902 E DE LEON ST
Name: BICH DANG	Street 2:	
Date Became Current:	City:	LONG BEACH
Date Ended Current:	State:	CA
Phone: 949-422-7427	Country:	
Source Type: Implementer	Zip Code:	90815

Owner/Operator Ind: Current Operator	Street No:	
Type: Other	Street 1:	6902 E DE LEON ST
Name: BICH DANG	Street 2:	
Date Became Current:	City:	LONG BEACH
Date Ended Current:	State:	CA
Phone: 949-422-7427	Country:	
Source Type: Implementer	Zip Code:	90815

<u>8</u>	2 of 2	NNE	0.20 / 1,074.09	13.26 / -1	BICH DANG 6902 E DE LEON ST LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070586477
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 20-AUG-19
Update Date:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070586477
Program Acronyms:
 RCRAINFO:CAC003023013

9	1 of 2	S	0.20 / 1,048.98	13.65 / -1	ROBERT ANDERSON 872 N KAREN WAY LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003022678
Gen Status Universe: No Report
Contact Name: ROBERT ANDERSON
Contact Address: 872 N KAREN WAY , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 949-400-8774
Contact Email: MANIFEST.SIRRIS@GMAIL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20190705
Location Latitude: 33.779034
Location Longitude: -118.099874

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190705
Handler Name: ROBERT ANDERSON
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 872 N KAREN WAY
Name: ROBERT ANDERSON	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 949-400-8774	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 872 N KAREN WAY
Name: ROBERT ANDERSON	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 949-400-8774	Country:
Source Type: Implementer	Zip Code: 90815

9	2 of 2	S	0.20 / 1,048.98	13.65 / -1	ROBERT ANDERSON 872 N KAREN WAY LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070586181
FIPS Code: 06037

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 20-AUG-19
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070586181
Program Acronyms:
 RCRAINFO:CAC003022678

10	1 of 2	NNE	0.18 / 925.38	11.36 / -3	ROSA TRUJILLO 6835 E DE LEON ST LONG BEACH CA 90815-4908	RCRA NON GEN
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EPA Handler ID: CAC003061754
Gen Status Universe: No Report
Contact Name: ROSA TRUJILLO
Contact Address: 6835 E DE LEON ST , , LONG BEACH , CA, 90815-4908 ,
Contact Phone No and Ext: 562-544-9449
Contact Email: NANCYRUIZ@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200330
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200330
Handler Name: ROSA TRUJILLO
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6835 E DE LEON ST
Name: ROSA TRUJILLO	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-544-9449	Country:
Source Type: Implementer	Zip Code: 90815-4908

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6835 E DE LEON ST
Name: ROSA TRUJILLO	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-544-9449	Country:
Source Type: Implementer	Zip Code: 90815-4908

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	2 of 2	NNE	0.18 / 925.38	11.36 / -3	ROSA TRUJILLO 6835 E DE LEON ST LONG BEACH CA 90815-4908	FINDS/FRS

Registry ID: 110070806129
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-JUN-20
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070806129
Program Acronyms:
 RCRAINFO:CAC003061754

11	1 of 2	SSE	0.24 / 1,259.53	13.62 / -1	ELNA ANDERSON 860 STEVELY AVE LONG BEACH CA 90815	RCRA NON GEN
EPA Handler ID:	CAC003026455					
Gen Status Universe:	No Report					
Contact Name:	ELNA ANDERSON					
Contact Address:	860 STEVELY AVE , , LONG BEACH , CA, 90815 ,					
Contact Phone No and Ext:	562-335-5364					
Contact Email:	ANAB@PWSEI.COM					
Contact Country:						
County Name:	LOS ANGELES					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
EPA Region:		09				
Land Type:						
Receive Date:		20190729				
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190729
Handler Name: ELNA ANDERSON
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 860 STEVELY AVE
Name: ELNA ANDERSON	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-335-5364	Country:
Source Type: Implementer	Zip Code: 90815
Owner/Operator Ind: Current Owner	Street No:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Type:	Other				Street 1: 860 STEVELY AVE	
Name:	ELNA ANDERSON				Street 2:	
Date Became Current:					City: LONG BEACH	
Date Ended Current:					State: CA	
Phone:	562-335-5364				Country:	
Source Type:	Implementer				Zip Code: 90815	

[11](#) 2 of 2 SSE 0.24 / 1,259.53 13.62 / -1 ELNA ANDERSON 860 STEVELY AVE LONG BEACH CA 90815 FINDS/FRS

Registry ID: 110070651818
 FIPS Code: 06037
 HUC Code:
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 26-NOV-19
 Update Date:
 Interest Types: UNSPECIFIED UNIVERSE
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor:
 Federal Facility Code:
 Federal Agency Name:
 Tribal Land Code:
 Tribal Land Name:
 Congressional Dist No:
 Census Block Code:
 EPA Region Code: 09
 County Name: LOS ANGELES
 US/Mexico Border Ind:
 Latitude:
 Longitude:
 Reference Point:
 Coord Collection Method:
 Accuracy Value:
 Datum: NAD83
 Source:
 Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070651818
 Program Acronyms:
 RCRAINFO:CAC003026455

[12](#) 1 of 3 W 0.01 / 32.09 14.56 / 0 SERVICE STATION 4849 1190 STUDEBAKER RD LONG BEACH CA 90815 HHSS

County: Los Angeles
 Tank Details Microfiche: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002916d.pdf>

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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12	2 of 3	W	0.01 / 32.09	14.56 / 0	SERVICE STATION 4849 1190 STUDEBAKER RD LONG BEACH CA	HIST TANK
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Owner Name:	UNION OIL COMPANY OF CALIFORNI	No of Containers:	3
Owner Street:	3701 WILSHIRE BOULEVARD - SUIT	County:	LOS ANGELES
Owner City:	LOS ANGELES	Facility State:	CA
Owner State:	CA	Facility Zip:	90815
Owner Zip:	90010		

12	3 of 3	W	0.01 / 32.09	14.56 / 0	SERVICE STATION 4849 1190 STUDEBAKER RD LONG BEACH CA	UST SWEEPS
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C C:	A19-060-17444	D Filename:	SITE01A
BOE:	44-013411	Page No:	62
Comp:	17444	County:	LOS ANGELES
Status:	ACTIVE	State :	CA
No of Tanks:	3	Zip:	90815
Jurisdict:	CITY OF LONG BEACH	Latitude:	0
Agency:	FIRE DEPARTMENT	Longitude:	0
Phone:		Georesult:	N

Tank Details

Tank ID:	000003	S Contain:	
O Tank ID:	4849-4	Stg:	W
SWRCB No:	19-060-017444-000003	Storage :	
Removed:		Storage Type:	WASTE
Installed:		P Contain:	
A Date:	07-01-85	Content:	WASTE OIL
Capac:	280	ONA:	
Tank Use:	OIL	D File Name:	TANK1A

Tank Details

Tank ID:	000001	S Contain:	
O Tank ID:	4849-1	Stg:	P
SWRCB No:	19-060-017444-000001	Storage :	
Removed:		Storage Type:	PRODUCT
Installed:		P Contain:	
A Date:	07-01-85	Content:	REG UNLEADED
Capac:	7500	ONA:	
Tank Use:	M.V. FUEL	D File Name:	TANK1A

Tank Details

Tank ID:	000002	S Contain:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
O Tank ID:	4849-2				Stg: P	
SWRCB No:	19-060-017444-000002				Storage :	
Removed:					Storage Type: PRODUCT	
Installed:					P Contain:	
A Date:	07-01-85				Content: REG UNLEADED	
Capac:	7500				ONA:	
Tank Use:	M.V. FUEL				D File Name: TANK1A	

[13](#) 1 of 1 SW 0.08 / 421.70 11.00 / -3 **MARIE BENSON
881 KALLIN AVE.
LONG BEACH CA 90815** **HAZ GEN**

Epa ID: CAC002908516 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002908516>

[14](#) 1 of 2 W 0.00 / 24.43 13.31 / -1 **7-ELEVEN INC. STORE #27017
1190 N STUDEBAKER RD
LONG BEACH CA 90815** **FINDS/FRS**

Registry ID: 110064933425
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-OCT-15
Update Date:
Interest Types: STATE MASTER
SIC Codes: 5411
SIC Code Descriptions: GROCERY STORES
NAICS Codes: 445120
NAICS Code Descriptions: CONVENIENCE STORES.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46
Census Block Code: 060375745002011
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 33.781459
Longitude: -118.10263
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110064933425
Program Acronyms:
 CA-ENVIROVIEW:1528

14	2 of 2	W	0.00 / 24.43	13.31 / -1	7-ELEVEN INC. STORE #27017 1190 N STUDEBAKER RD LONG BEACH CA 90815	CERS HAZ
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Site ID: 1528
Latitude: 33.781330
Longitude: -118.102575
County:

Regulated Programs

EI ID: 10463620 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 03/27/2014 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Long Beach Environmental Heath
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 05/09/2014.

Violation Description:

Business Plan Program - Administration/Documentation - General

Evaluations

Eval Date: 04/27/2021
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Long Beach Environmental Heath
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Mistaken reproduced Report. Please delete; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/27/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Long Beach Environmental Heath

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Eval Program:		HMRRP				
Eval Source:		CERS				
Eval Notes:						

Eval Date:		05/26/2014				
Violations Found:		No				
Eval General Type:		Other/Unknown				
Eval Type:		Other, not routine, done by local agency				
Eval Division:		Long Beach Environmental Health				
Eval Program:		HMRRP				
Eval Source:		CERS				
Eval Notes:						

FOLLOWUP TO 3/27/2014 ROUTINE; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:		04/27/2021				
Violations Found:		No				
Eval General Type:		Compliance Evaluation Inspection				
Eval Type:		Routine done by local agency				
Eval Division:		Long Beach Environmental Health				
Eval Program:		HMRRP				
Eval Source:		CERS				
Eval Notes:						

Long Beach Fire Department Hazardous Materials Specialists, Brian Erdman was on site to conduct a Hazardous Materials Business Plan for the business. The purpose of the HMBP is to assist the LBFD during an emergency response to this facility. Manuel Lopez provided consent to conduct the inspection. Any facility that stores Hazardous Materials at or above a reportable volume is required to complete an electronic HMBEP to the California Environmental Response System (CERS) at <https://cers.calepa.ca.gov/>. The reportable volume for Hazardous Wastes / Materials or mixture is equal to or greater than 55 gallons of a liquid, 500 pounds of solid, or 200 cubic feet of a gas. The facility has the following Hazardous Materials at a reportable volume: - Carbon Dioxide CERS 10463620 is complete and accepted. Training has been conducted Site map is available for review. For any questions regarding this report, please contact Brian Erdman at 562-570-2581 or at [Truncated]; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:		03/09/2017				
Violations Found:		No				
Eval General Type:		Compliance Evaluation Inspection				
Eval Type:		Routine done by local agency				
Eval Division:		Long Beach Environmental Health				
Eval Program:		HMRRP				
Eval Source:		CERS				
Eval Notes:						

Affiliations

Affil Type Desc:		Operator
Entity Name:		Manuel Lopez
Entity Title:		
Address:		
City:		
State:		
Country:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Zip Code:

Phone: (562) 493-7175

Affil Type Desc:

Document Preparer

Entity Name:

Stantec Consulting Services Inc.

Entity Title:

Address:

City:

State:

Country:

Zip Code:

Phone:

Affil Type Desc:

Legal Owner

Entity Name:

Manuel Lopez

Entity Title:

Address:

1190 N Studebaker Rd

City:

Long Beach

State:

CA

Country:

United States

Zip Code:

90815

Phone:

(562) 493-7175

Affil Type Desc:

Identification Signer

Entity Name:

BRENT SMERCZYNSKI

Entity Title:

CORPORATE ASSET PROTECTION MANAGER

Address:

City:

State:

Country:

Zip Code:

Phone:

Affil Type Desc:

Property Owner

Entity Name:

7-ELEVEN INC.

Entity Title:

Address:

LICENSE RENEWAL DEPT.:3200 HACKBERRY ROAD

City:

IRVING

State:

TX

Country:

United States

Zip Code:

75063

Phone:

(972) 828-7578

Affil Type Desc:

Environmental Contact

Entity Name:

BRENT SMERCZYNSKI

Entity Title:

Address:

3200 HACKBERRY ROAD

City:

IRVING

State:

TX

Country:

Zip Code:

75063

Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1190 N Studebaker Rd
City: Long Beach
State: CA
Country:
Zip Code: 90815
Phone:

Affil Type Desc: CUPA District
Entity Name: Long Beach Environmental Health
Entity Title:
Address: 2525 Grand Avenue
City: Long Beach
State: CA
Country:
Zip Code: 90815
Phone: (562) 570-4131

Affil Type Desc: Parent Corporation
Entity Name: 7-ELEVEN CONVENIENCE STORES
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HMBP	Longitude:	-118.102580
Program ID:	10463620	Coord Name:	
Latitude:	33.781330	Ref Point Type Desc:	Center of a facility or station.

<u>15</u>	1 of 2	NW	0.07 / 347.29	11.15 / -3	SUSAN MURRAY 6718 EAST MANTOVA ST. LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC002978775
Gen Status Universe: No Report
Contact Name: SUSAN MURRAY
Contact Address: 6718 EAST MANTOVA ST. , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-714-6493
Contact Email: KYLE@FORTEENVIRONMENTAL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Receive Date:		20180904				
Location Latitude:		33.783377				
Location Longitude:		-118.101304				

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180904
Handler Name: SUSAN MURRAY
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6718 EAST MANTOVA ST.
Name: SUSAN MURRAY	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-714-6493	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6718 EAST MANTOVA ST.
Name: SUSAN MURRAY	Street 2:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:				City:	LONG BEACH	
Date Ended Current:				State:	CA	
Phone:	562-714-6493			Country:		
Source Type:	Implementer			Zip Code:	90815	

[15](#) 2 of 2 **NW** **0.07 / 347.29** **11.15 / -3** **SUSAN MURRAY
6718 EAST MANTOVA ST.
LONG BEACH CA 90815** **FINDS/FRS**

Registry ID: 110070437103
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 31-DEC-18
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070437103
Program Acronyms:
RCRAINFO:CAC002978775

[16](#) 1 of 1 **SW** **0.09 / 452.12** **12.40 / -2** **JENNIFER JONES
876 KALLIN
LONG BEACH CA 90815** **HAZ GEN**

Epa ID: CAC002917598 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Handler Profile URL:		https://hwts.dtsc.ca.gov/search https://hwts.dtsc.ca.gov/facility/CAC002917598				

[17](#) 1 of 1 **NNE** 0.18 / 971.62 11.86 / -2 **SHAWN SCHWARZ** **6920 E Bacarro St** **Long Beach CA 908154805** **HAZNET**

SIC Code: **Mailing City:** LONG BEACH
NAICS Code: **Mailing State:** CA
EPA ID: CAC002775092 **Mailing Zip:** 908154805
Create Date: 6/17/2014 **Region Code:** 3
Fac Act Ind: No **Owner Name:** SHAWN SCHWARZ
Inact Date: 9/16/2014 **Owner Addr 1:** 6920 E BACARRO ST
County Code: 19 **Owner Addr 2:**
County Name: Los Angeles **Owner City:** LONG BEACH
Mail Name: **Owner State:** CA
Mailing Addr 1: 6920 E BACARRO ST **Owner Zip:** 908154805
Mailing Addr 2: **Owner Phone:** 5625199894
Owner Fax:

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002775092>

[18](#) 1 of 1 **SSW** 0.14 / 723.79 12.48 / -2 **KEVIN HUGHES** **864 ROXANNE AVE** **LONG BEACH CA 908155013** **HAZ GEN**

Epa ID: CAC002799034 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002799034>

[19](#) 1 of 1 **NW** 0.06 / 317.00 11.79 / -2 **CHARLES D CLAY AND PATRICIA C CLAY** **6719 E MANTOVA ST** **LONG BEACH CA 90815** **RCRA NON GEN**

EPA Handler ID: CAC003178326
Gen Status Universe: No Report
Contact Name: CHARLES CLAY
Contact Address: 6719 E MANTOVA ST , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-387-7737
Contact Email: JDIAZ@BURNS-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20220527
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220527
Handler Name: CHARLES D CLAY AND PATRICIA C CLAY
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6719 E MANTOVA ST
Name: CHARLES CLAY	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-387-7737	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6719 E MANTOVA ST
Name: CHARLES CLAY	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-387-7737	Country:
Source Type: Implementer	Zip Code: 90815

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	1 of 1	W	0.00 / 18.01	12.11 / -2	Long Beach Fire Studebaker Road and Anaheim Road Long Beach CA	CHMIRS

Control No: 09-8465 **Notified Date:**
County: Los Angeles County **Notified Date Time:**
Year: 2009
URL: <https://w3.calema.ca.gov/operational/mal haz.nsf/f1841a103c102734882563e200760c4a/48f314b56b5a1b34882576930005c16d?OpenDocument>

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	Yes	3 Ves >= 300 Tons:	
1 Substance:	Milky White Sheen	Incident Date:	12/20/2009
1 Measure:	Sheen	Incident Time:	1626
1 Other:	Possible Sewage	Spill Site:	Merchant/Business
1 Quantity:	1 mile long	Injuries?:	No
1 Type:	OTHER	No of Injuries:	
1 Pipeline:		Fatals?:	No
1 Vessel >= 300 Tons:		No of Fatals:	
2 Substance:		Evacs?:	No
2 Quantity:		No of Evacs:	
2 Measure:		Cleanup:	Unknown
2 Type:		Site:	Cerritos Flood Channel
2 Other:		Cause:	Unknown
2 Pipeline:		Cause Other:	
2 Vessel >= 300 Tons:		Dog No:	
3 Substance:		Water:	Yes
3 Quantity:		Water Way:	Cerritos Flood Channel
3 Measure:		City:	Long Beach
3 Type:		County:	Los Angeles County
3 Other:		ZIP:	
3 Pipeline:			

Admin Agency: Long Beach Fire Department
Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS,COASTAL COM,LANDS,PARKS & REC,USCG
Location: Studebaker Road and Anaheim Road
Description: A third party contacted RP about a Milky White Sheen in the canal. The sheen stationary at this time and the fire dept. is on scene and City of Long Beach Health will be arriving soon. It is thought to be sewage at this time.

Spill Report View

Amount 1:		Creation Date:	12/20/2009 05:02 PM
Amount 2:		Received By:	
Amount 3:		Admin Agency:	
Water:		Admin Agency 2:	
On Scene:		Additional County:	
Other on Scene:		Phone No:	
Other Notified:		Ext:	
Document Title:	SPILL Report	Pag Cell:	
Spill Site:	Merchant/Business		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Type: OTHER
Cause Desc for Other:
Person Notifying Cal OES:

Hazardous Materials Spill Report

Date :	12/20/2009	Water Involved:	Yes
Time:	1702	Drink Wtr Impact:	No
Incident Date:	12/20/2009	Detail for Other:	
Incident Time:	1626	UPRR Rim No:	
Control Cal OES:	09-8465	DOG Unit:	
Control NRC:	926720	RWQCB Unit:	4
Contained:	Yes		
Waterway:	Cerritos Flood Channel		
Received By:			
Cleanup By:	Unknown		
Incident Location:	Studebaker Road and Anaheim Road		
Additional County:			
1 Substance:	Milky White Sheen		
1 Qty:	=		
1 Amount :	1 mile long		
1 Measure:	Sheen		
1 Type:	OTHER		
1 Other:	Possible Sewage		
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	No		
Fatality:	No		
Evacuation:	No		
Known Impact:	None		
Name:			
Agency:	Long Beach Fire		
Phone:			
Ext:			
Pag Cell:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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PRS Name:
PRS Agency:
PRS Phone:
PRS Ext:
PRS Pag Cell:
Sec Agency: LACoFD Health Haz-Mat
Admin Agency: Long Beach Fire Department
Admin Agency 2:
Notification Info:
Notification List:
On Scene: Fire Dept.
Other on Scene:
Other Notified: Public Works/ Long Beach City Health/ US EPA, USCG, Fish and Game
Header Unknown: SOUTH COAST AQMD
Incident Desc:
Site: Merchant/Business
Reported Cause: Unknown
R R Crssing < 50 Ft:
Description: A third party contacted RP about a Milky White Sheen in the canal. The sheen stationary at this time and the fire dept. is on scene and City of Long Beach Health will be arriving soon. It is thought to be sewage at this time.

21	1 of 1	NNE	0.21 / 1,083.56	12.43 / -2	KATHRYN & STEVEN BRADLEY 6935 E BACARRO ST LONG BEACH CA 908154806	HAZ GEN
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Epa ID: CAC002871495 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002871495>

22	1 of 2	NNE	0.16 / 861.02	12.20 / -2	VICTORIA BILLIT 6911 EAST BACARRO STREET LONG BEACH CA 90815-4806	RCRA NON GEN
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EPA Handler ID: CAC002984547
Gen Status Universe: No Report
Contact Name: VICTORIA BILLIT
Contact Address: 1256 10TH STREET , , MANHATTAN BEACH , CA, 90266-6022 ,
Contact Phone No and Ext: 310-714-1007
Contact Email: STEPHANIECRUZ@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20181011
Location Latitude: 33.783883
Location Longitude: -118.098581

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20181011
Handler Name: VICTORIA BILLIT
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1256 10TH STREET
Name:	VICTORIA BILLIT	Street 2:	
Date Became Current:		City:	MANHATTAN BEACH
Date Ended Current:		State:	CA
Phone:	310-714-1007	Country:	
Source Type:	Implementer	Zip Code:	90266-6022

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1256 10TH STREET
Name:	VICTORIA BILLIT	Street 2:	
Date Became Current:		City:	MANHATTAN BEACH
Date Ended Current:		State:	CA
Phone:	310-714-1007	Country:	
Source Type:	Implementer	Zip Code:	90266-6022

22	2 of 2	NNE	0.16 / 861.02	12.20 / -2	VICTORIA BILLIT 6911 EAST BACARRO STREET LONG BEACH CA 90815-4806	FINDS/FRS
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Registry ID:		110070406832				
FIPS Code:		06037				
HUC Code:						
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		31-DEC-18				
Update Date:						
Interest Types:		OTHER HAZARDOUS WASTE ACTIVITIES				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070406832				
Program Acronyms:						
RCRAINFO:CAC002984547						

23	1 of 3	W	0.01 / 35.13	13.20 / -1	RETIREMENT HOUSING FOUNDATION 911 STUDEBAKER ROAD LONG BEACH CA 90815	LUST
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Global ID:	T0603795885	County:	LOS ANGELES
Status:	COMPLETED - CASE CLOSED	Latitude:	33.779747
Status Date:	12/11/2013	Longitude:	-118.103003
Case Type:	LUST CLEANUP SITE		

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No:		Potential COC:	
Local Case No:	TTPR0023557	How Discovered:	
Begin Date:	11/4/1977	Stop Method:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Lead Agency:	SWRCB				Stop Description:	
Local Agency:					Case Worker:	MC
CUF Case:	NO				Military DoD Site:	No
CalEnvScreen Score:					Leak Reported Dt:	1999-07-01 00:00:00
EPA Region:	9				No Further Action Dt:	2013-12-11 00:00:00
Qty Rlsd Gallons:						
Calenviroscreen 4 Score:		15-20%				
Facility Project Sub Type:						
Calenviroscreen 3 Score:		41-45%				
Potential Media of Concern:		Soil				
How Discovered Description:						
Calwater Watershed Name:		San Gabriel River - Lower San Gabriel - Central (Split) (405.15)				
DWR GW Subbasin Name:		Coastal Plain Of Los Angeles - Central (4-011.04)				
Disadvantaged Community:						
Coordinate Source:		Google Geocode				
Discharge Cause:		Unknown				
Discharge Source:		Tank				
File Location:						
Site History:						

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type:	Other
Date :	11/4/1977
Action:	Leak Discovery
Action Type:	Other
Date :	7/1/1999
Action:	Leak Reported
Action Type:	ENFORCEMENT
Date :	4/13/2012
Action:	Closure/No Further Action Letter

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type:	Regional Board Caseworker	Address:	320 W. 4TH ST., SUITE 200
Contact Name:	YUE RONG	Email:	yrong@waterboards.ca.gov
City:	Los Angeles	Phone No:	
Organization Name:	LOS ANGELES RWQCB (REGION 4)		
Contact Type:	Regional Board Caseworker	Address:	1001 I Street
Contact Name:	MATTHEW COHEN	Email:	matthew.cohen@waterboards.ca.gov
City:	SACRAMENTO	Phone No:	9163415751
Organization Name:	SWRCB		

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status:	Completed - Case Closed
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Date: 12/11/2013

Status: Open - Case Begin Date
Status Date: 11/4/1977

Status: Open - Site Assessment
Status Date: 3/25/2002

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name:	RETIREMENT HOUSING FOUNDATION	Potential COC:	
Site Facility Type:	LUST CLEANUP SITE	Facility Type:	
Cleanup Status:	COMPLETED - CASE CLOSED	Composting Method:	
Project Status:		Address:	911 STUDEBAKER ROAD
WDR Place Type:		City:	LONG BEACH
WDR File:		Zip:	90815
WDR Order:		County:	LOS ANGELES
CUF Priority Assig:		CUF Claim:	
CUF Amount Paid:			
File Location:			
Designated Beneficial Use:	MUN, AGR, IND, PROC		
Project Oversight Agencies:			
Report Link:	https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603795885		
Cleanup Status Detail:	COMPLETED - CASE CLOSED AS OF 12/11/2013		
Cleanup History Link:	https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603795885&tabname=regulatoryhistory		
Potential Media of Concern:	SOIL		
User Defined Beneficial Use:			
DWR GW Sub Basin:	Coastal Plain Of Los Angeles - Central (4-011.04)		
Calwater Watershed Name:	San Gabriel River - Lower San Gabriel - Central (Split) (405.15)		
Post Closure Site Management:			
Future Land Use:			
Cleanup Oversight Agencies:	SWRCB (LEAD) CASEWORKER: MATTHEW COHEN LONG BEACH, CITY OF - CASE #: TTPR0023557 LOS ANGELES RWQCB (REGION 4) CASEWORKER: YUE RONG		
Gndwater Monitoring Freque:			
Designated Beneficial Use Desc:	Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply		
Site History:			

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Open - Site Assessment
Date : 3/25/2002

Status: Open - Case Begin Date
Date : 11/4/1977

Status: Completed - Case Closed

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date : 12/11/2013

Sites from GeoTracker Search - Regulatory Activities (as of May 27, 2022)

Action Type: Other Regulatory Actions
Action Date: 4/13/2012
Received Issue Date: 4/13/2012
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0603795885&enforcement_id=6175059&temptable=ENFORCEMENT

Title Description Comments:

No Further Action Letter

Action Type: Leak Action
Action Date: 7/1/1999
Received Issue Date:
Action: Leak Reported
Doc Link:

Title Description Comments:

Action Type: Leak Action
Action Date: 11/4/1977
Received Issue Date:
Action: Leak Discovery
Doc Link:

Title Description Comments:

Sites from GeoTracker Search - Documents (as of May 27, 2022)

Document Type: Site Documents **Size :**
Document Date: 4/13/2012 **Submitted By:** (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: NO FURTHER ACTION LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0603795885&enforcement_id=6175059

23	2 of 3	W	0.01 / 35.13	13.20 / -1	PERKOWITZ & RUTH ARCHITECTS, INC. 911 STUDEBAKER RD LONG BEACH CA 908150000	HAZNET
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SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC001489256	Mailing Zip:	908150000
Create Date:	12/30/1998	Region Code:	3
Fac Act Ind:	No	Owner Name:	PERKOWITZ & RUTH ARCHITECTS IN
Inact Date:	10/25/2000	Owner Addr 1:	911 STUDEBAKER RD
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Mailing Addr 1:	911 STUDEBAKER RD				Owner Zip: 908150000	
Mailing Addr 2:					Owner Phone: 5625949333	
Owner Fax:						
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC001489256					

23	3 of 3	W	0.01 / 35.13	13.20 / -1	RETIREMENT HOUSING FOUNDATION 911 STUDEBAKER ROAD LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110065304744
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-OCT-15
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46
Census Block Code: 060375745002022
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 33.77972
Longitude: -118.103022
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065304744
Program Acronyms:
 CA-ENVIROVIEW:255649

24	1 of 1	WSW	0.00 / 20.06	12.25 / -2	CARLEN ENTERPRISES 1000 N. STUDEBAKER RD. LONG BEACH CA 90815-	FINDS/FRS
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Registry ID:		110022300794				
FIPS Code:		06037				
HUC Code:		18070106				
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		27-MAY-05				
Update Date:		20-FEB-08				
Interest Types:		COMPLIANCE ACTIVITY				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:		FRS-GEOCODE				
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:		46				
Census Block Code:		060375745002011				
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:		33.780256				
Longitude:		-118.102766				
Reference Point:		ENTRANCE POINT OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		50				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110022300794				
Program Acronyms:						
NCDB:I09#200402034356 2						

25	1 of 1	W	0.02 / 85.80	11.50 / -3	S S MECHANICAL INC 6630 EAST ANAHEIM RD LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002604978			Facility County:	19	
Address 2:				County:	Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002604978					

26	1 of 1	NW	0.04 / 193.64	10.82 / -3	6702 EAST MANTOVA STREET LONG BEACH CA	ERNS
NRC Report No:	549122			Latitude Degrees:		
Type of Incident:	FIXED			Latitude Minutes:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Incident Cause:	DUMPING				Latitude Seconds:	
Incident Date:	11/24/2000 2:00:00 PM				Longitude Degrees:	
Incident Location:	RESIDENTIAL HOME BEING RESTORED				Longitude Minutes:	
Incident Dtg:	OCCURRED				Longitude Seconds:	
Distance from City:					Lat Quad:	
Distance Units:					Long Quad:	
Direction from City:					Location Section:	
Location County:	LOS ANGELES				Location Township:	
Potential Flag:					Location Range:	
Year:	Year 2000 Reports					
Description of Incident:	THE COMPANY DUMPED THE MATERIAL INTO THE STREET AND LET IT RUN INTO THE STORM DRAIN. THIS IS THE SECOND INCIDENT WITHIN THE WEEK.					

Material Spill Information

Chris Code:	ODS	Unit of Measure:	UNKNOWN AMOUNT
CAS No:	000000-00-0	If Reached Water:	YES
UN No:		Amount in Water:	0
Name of Material:	OIL: DIESEL	Unit Reach Water:	UNKNOWN AMOUNT
Amount of Material:	0		

Calls Information

Date Time Received:	11/25/2000 2:58:55 PM	Responsible City:	LONG BEACH
Date Time Complete:	11/25/2000 3:09:43 PM	Responsible State:	CA
Call Type:	INC	Responsible Zip:	
Resp Company:	BEACON CONCRTE	Source:	UNAVAILABLE
Resp Org Type:	PRIVATE ENTERPRISE		

Incident Information

Tank ID:		Building ID:	
Tank Regulated:	U	Location Area ID:	
Tank Regulated By:		Location Block ID:	
Capacity of Tank:		OCSG No:	
Capacity Tank Units:		OCSP No:	
Description of Tank:		State Lease No:	
Actual Amount:		Pier Dock No:	
Actual Amount Units:		Berth Slip No:	
Tank Above Ground:	ABOVE	Brake Failure:	N
NPDES:		Airbag Deployed:	
NPDES Compliance:	U	Transport Contain:	U
Init Contin Rel No:		Location Subdiv:	
Contin Rel Permit:		Platform Rig Name:	
Contin Release Type:		Platform Letter:	
Aircraft ID:		Allision:	N
Aircraft Runway No:		Type of Structure:	
Aircraft Spot No:		Structure Name:	
Aircraft Type:	UNKNOWN	Structure Oper:	U
Aircraft Model:		Transit Bus Flag:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Aircraft Fuel Cap:					Date Time Norm Serv:	
Aircraft Fuel Cap U:					Serv Disrupt Time:	
Aircraft Fuel on Brd:					Serv Disrupt Units:	
Aircraft Fuel OB U:					CR Begin Date:	
Aircraft Hanger:					CR End Date:	
Road Mile Marker:					CR Change Date:	
Power Gen Facility:	N				FBI Contact:	
Generating Capacity:					FBI Contact Dt Tm:	
Type of Fixed Obj:	OTHER				Passenger Handling:	
Type of Fuel:					Passenger Route:	XXX
DOT Crossing No:					Passenger Delay:	XXX
DOT Regulated:	U				Sub Part C Test Req:	XXX
Pipeline Type:					Conductor Test:	
Pipeline Abv Ground:	ABOVE				Engineer Test:	
Pipeline Covered:	U				Trainman Test:	
Exposed Underwater:	N				Yard Foreman Test:	
Railroad Hotline:					RCL Operator Test:	
Railroad Milepost:					Brakeman Test:	
Grade Crossing:	N				Train Dispat Test:	
Crossing Device Ty:					Signalman Test:	
Ty Vehicle Involved:					Oth Employee Test:	
Device Operational:	Y				Unknown Test:	

Incident Details Information

Release Secured:	U				State Agen Report No:	
Release Rate:					State Agen on Scene:	
Release Rate Unit:					State Agen Notified:	
Release Rate Rate:					Fed Agency Notified:	
Est Duration of Rel:					Oth Agency Notified:	
Desc Remedial Act:	NONE TAKEN				Body of Water:	STORM DRAIN
Fire Involved:	N				Tributary of:	UNKNOWN
Fire Extinguished:	U				Near River Mile Make:	
Any Evacuations:	N				Near River Mile Mark:	
No Evacuated:					Offshore:	N
Who Evacuated:					Weather Conditions:	CLEAR
Radius of Evacu:					Air Temperature:	
Any Injuries:	N				Wind Direction:	
No. Injured:					Wind Speed:	
No. Hospitalized:					Wind Speed Unit:	
No. Fatalities:					Water Supp Contam:	N
Any Fatalities:	N				Water Temperature:	
Any Damages:	N				Wave Condition:	
Damage Amount:					Current Speed:	
Air Corridor Closed:	N				Current Direction:	
Air Corridor Desc:					Current Speed Unit:	
Air Closure Time:					EMPL Fatality:	
Waterway Closed:	N				Pass Fatality:	
Waterway Desc:					Community Impact:	N
Waterway Close Time:					Passengers Transfer:	UNK
Road Closed:	N				Passenger Injuries:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Road Desc:					Employee Injuries:	
Road Closure Time:					Occupant Fatality:	
Road Closure Units:					Sheen Size:	
Closure Direction:					Sheen Size Units:	
Major Artery:	No				Sheen Size Length:	
Track Closed:	N				Sheen Size Length U:	
Track Desc:					Sheen Size Width:	
Track Closure Time:					Sheen Size Width U:	
Track Closure Units:					Sheen Color:	
Track Close Dir:					Dir of Sheen Travel:	
Media Interest:	NONE				Sheen Odor Desc:	
Medium Desc:	WATER				Duration Unit:	
Addl Medium Info:	STORM DRAIN				Additional Info:	THE CALLER OBSERVED THE MATERIAL ON THE STREET THEN SPOKE WITH THE RESPONSIBLE PARTY WHO STATED THEY WOULD TAKE ACTION TO CLEAN THE SPILL. THE MATERIAL WAS LEFT IN THE STREET AND ANOTHER SPILL OCCURED SEVERAL DAYS LATER.

[27](#) 1 of 1 W 0.02 / 120.40 13.78 / -1 MPR INC 911 STUDEBAKER LONG BEACH CA 908150000 HAZNET

SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAL000159665	Mailing Zip:	908154948
Create Date:	10/13/1995	Region Code:	3
Fac Act Ind:	No	Owner Name:	MPR INC
Inact Date:	6/30/1999	Owner Addr 1:	911 N STUDEBAKER RD
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	911 N STUDEBAKER RD	Owner Zip:	908154948
Mailing Addr 2:		Owner Phone:	0000000000
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAL000159665>

[28](#) 1 of 1 SW 0.09 / 458.63 11.72 / -3 ANDY OLIVER 865 KALLIN AVENUE LONG BEACH CA 90815 RCRA NON GEN

EPA Handler ID:	CAC003096588
Gen Status Universe:	No Report
Contact Name:	ANDY OLIVER
Contact Address:	865 KALLIN AVENUE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	714-777-7777
Contact Email:	KARLA@SUPERIORENV.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Land Type:

Receive Date: 20201210
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20201210
Handler Name: ANDY OLIVER
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 865 KALLIN AVENUE
Name: ANDY OLIVER	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 714-777-7777	Country:
Source Type: Implementer	Zip Code: 90815
Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 865 KALLIN AVENUE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Name:	ANDY OLIVER	Street 2:				
Date Became Current:		City:			LONG BEACH	
Date Ended Current:		State:			CA	
Phone:	714-777-7777	Country:				
Source Type:	Implementer	Zip Code:			90815	

29	1 of 2	S	0.20 / 1,066.69	14.17 / 0	CHRIS SULSONA 845 STEVELY AVE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003023104
 Gen Status Universe: No Report
 Contact Name: CHRIS SULSONA
 Contact Address: 845 STEVELY AVE , , LONG BEACH , CA, 90815 ,
 Contact Phone No and Ext: 310-863-1957
 Contact Email: MANIFEST.SIRRIS@GMAIL.COM
 Contact Country:
 County Name: LOS ANGELES
 EPA Region: 09
 Land Type:
 Receive Date: 20190709
 Location Latitude: 33.777885
 Location Longitude: -118.098842

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20190709

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Name: CHRIS SULSONA
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	845 STEVELY AVE
Name:	CHRIS SULSONA	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	310-863-1957	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	845 STEVELY AVE
Name:	CHRIS SULSONA	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	310-863-1957	Country:	
Source Type:	Implementer	Zip Code:	90815

29	2 of 2	S	0.20 / 1,066.69	14.17 / 0	CHRIS SULSONA 845 STEVELY AVE LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070586556
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 20-AUG-19
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Longitude:

Reference Point:

Coord Collection Method:

Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070586556

Program Acronyms:

RCRAINFO:CAC003023104

30	1 of 4	W	0.03 / 172.83	11.53 / -3	6560 E ANAHEIM RD LONG BEACH CA 90815	HMS LA
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Site No: 010782

Area: 1C

Detail Info

Permit No:

Permit Cat Desc:

Status Code: OPEN

Status Desc: File Opened, no permit exists

Permit Status Desc:

Permit Type:

Permit Type Desc:

Permit Status Code:

Permit Category:

File No: 010742

File Name: LA CO DPW SWMD LOS ALTOS PP

30	2 of 4	W	0.03 / 172.83	11.53 / -3	LA County Public Works 6560 E Anaheim RD Long Beach CA	UST LONGB
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Status: Removed of Fenced Sites

Closed:

Closing:

Test Spill:

Forms:

Flag: n/a

Sumps:

UST: 1

Gas:

Diesel:

Waste:

Jet A:

Avgas:

Oil:

D Gen: 1x1k

Other:

Dwp: y

Dwt: y

Monitor: Veeder 300

Disp Pan: n/a

2002 Mn Tst Co: *****

2003 Mn Tst Co: Ed's Maintenance

2005 Mn Tst Co:

2006 Mn Tst Co:

2004 MC Annual:

2005 MC Annual: 7/5/2005

2006 MC Annual:

Next MC Due Date: 7/5/2006

2005 Insp Cmp: SEE NOTES

2006 Insp Cmp:

NOV Crrctn Dt Gvn:

NOV Crctn Dt Gv2:

RFS Complete:

RFS Complete2:

SB 989 Tester: Ed's Maint

SB 989 Tested: 2/6/2003

SB 989 Passed:

Tank Owners: L.A. County Public Works

Contact: Frederick Kuhnow

Phone: 861-0316

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Disp Monit:	n/a				Fax: 861-3957	
Violations 2002:					BIS:	
Violations 2003:	1,2,16				Dsgntd Operator Nm: Bill Duree/ Tait & Assoc	
Violations 2005:					Dsgntd Op Ph No: 714-560-8689	
Violations 2006:						
Unique Site Conditions:						
Message Center:						
Comments:			MC 2005 Done, PENDING REMOVAL FEB 2006			

30	3 of 4	W	0.03 / 172.83	11.53 / -3	LA County Public Works 6560 E Anaheim RD Long Beach CA	UST LONGB
Status:	Removed of Fenced Sites				2002 Mn Tst Co: *****	
Closed:					2003 Mn Tst Co: Ed's Maintenance	
Closing:					2005 Mn Tst Co:	
Test Spill:					2006 Mn Tst Co:	
Forms:					2004 MC Annual:	
Flag:	n/a				2005 MC Annual: 7/6/2006	
Sumps:					2006 MC Annual:	
UST:	1				Next MC Due Date: 7/5/2006	
Gas:					2005 Insp Cmp: SEE NOTES	
Diesel:					2006 Insp Cmp:	
Waste:					NOV Crrctn Dt Gvn:	
Jet A:					NOV Crctn Dt Gv2:	
Avgas:					RFS Complete:	
Oil:					RFS Complete2:	
D Gen:	1x1k				SB 989 Tester: Ed's Maint	
Other:					SB 989 Tested: 2/6/2003	
Dwp:	y				SB 989 Passed:	
Dwt:	y				Tank Owners: L.A. County Public Works	
Monitor:	Veeder 300				Contact: Frederick Kuhnaw	
Disp Pan:	n/a				Phone: 861-0316	
Disp Monit:	n/a				Fax: 861-3957	
Violations 2002:					BIS:	
Violations 2003:	1,2,16				Dsgntd Operator Nm: Bill Duree/ Tait & Assoc	
Violations 2005:					Dsgntd Op Ph No: 714-560-8689	
Violations 2006:						
Unique Site Conditions:						
Message Center:						
Comments:			MC 2005 Done, PENDING REMOVAL FEB 2006			

30	4 of 4	W	0.03 / 172.83	11.53 / -3	L A COUNTY PUBLIC WORKS/FLOOD MAINT. 6560 E ANAHEIM RD LONG BEACH CA 908150000	HAZ GEN
Epa ID:	CAC001225184				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC001225184>

31	1 of 2	SSW	0.13 / 678.37	12.01 / -2	LYNN GAY 845 ROXANNE AVENUE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC002993484
 Gen Status Universe: No Report
 Contact Name: LYNN GAY
 Contact Address: 845 ROXANNE AVENUE , , LONG BEACH , CA, 90815 ,
 Contact Phone No and Ext: 562-857-2504
 Contact Email: CRISTAL.TEECOR@YAHOO.COM
 Contact Country:
 County Name: LOS ANGELES
 EPA Region: 09
 Land Type:
 Receive Date: 20181218
 Location Latitude: 33.778061
 Location Longitude: -118.100505

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20181218
 Handler Name: LYNN GAY
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	845 ROXANNE AVENUE
Name:	LYNN GAY	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-857-2504	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	845 ROXANNE AVENUE
Name:	LYNN GAY	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-857-2504	Country:	
Source Type:	Implementer	Zip Code:	90815

31	2 of 2	SSW	0.13 / 678.37	12.01 / -2	LYNN GAY 845 ROXANNE AVENUE LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070512892
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 21-FEB-19
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070512892
Program Acronyms:
 RCRAINFO:CAC002993484

32	1 of 1	SSE	0.21 / 1,114.81	13.14 / -1	JEAN TANAKA 836 STEVELY AVE LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002673618
Address 2:
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002673618>

33	1 of 1	SW	0.08 / 441.83	11.82 / -2	KYLE GIPSON 856 KALLIN AVENUE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003068735
Gen Status Universe: No Report
Contact Name: KYLE GIPSON
Contact Address: 856 KALLIN AVENUE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 714-812-2218
Contact Email: DONNAC@PWSEI.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200529
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20200529
 Handler Name: KYLE GIPSON
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	856 KALLIN AVENUE
Name:	KYLE GIPSON	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-812-2218	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	856 KALLIN AVENUE
Name:	KYLE GIPSON	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-812-2218	Country:	
Source Type:	Implementer	Zip Code:	90815

[34](#) 1 of 1 NW 0.01 / 31.28 11.42 / -3 FERGUSON, EILEEN 1283 N STUDEBAKER RD LONG BEACH CA 908154831 HAZ GEN

Epa ID: CAC002709475 Facility County: 19
 Address 2: County: Los Angeles
 Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
 Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002709475>

[35](#) 1 of 1 S 0.16 / 848.49 12.34 / -2 GEORGE BALDERAS 6861 E ROXANNE WAY LONG BEACH CA 90815 RCRA NON GEN

EPA Handler ID: CAC003174068
 Gen Status Universe: No Report

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Contact Name: GEORGE BALDERAS
Contact Address: 6861 E ROXANNE WAY , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 626-905-4047
Contact Email: CES818@GMAIL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20220502
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220502
Handler Name: GEORGE BALDERAS
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6861 E ROXANNE WAY
Name: GEORGE BALDERAS	Street 2:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:				City:	LONG BEACH	
Date Ended Current:				State:	CA	
Phone:	626-905-4047			Country:		
Source Type:	Implementer			Zip Code:	90815	
Owner/Operator Ind:		Current Operator		Street No:		
Type:	Other			Street 1:		6861 E ROXANNE WAY
Name:	GEORGE BALDERAS			Street 2:		
Date Became Current:				City:	LONG BEACH	
Date Ended Current:				State:	CA	
Phone:	626-905-4047			Country:		
Source Type:	Implementer			Zip Code:	90815	

[36](#) 1 of 1 S 0.17 / 882.85 11.93 / -2 **ROBERT BRIESTER** HAZ GEN
6871 E ROXANNE WAY
LONG BEACH CA 908155016

Epa ID: CAC002851778 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002851778>

[37](#) 1 of 2 SSW 0.13 / 678.97 12.11 / -2 **KIER DELEO** RCRA NON GEN
833 ROXANNE AVENUE
LONG BEACH CA 90815

EPA Handler ID: CAC003183756
Gen Status Universe: No Report
Contact Name: KIER DELEO
Contact Address: 833 ROXANNE AVENUE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 213-494-0136
Contact Email: KIER28@YAHOO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20220705
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220705
Handler Name: KIER DELEO
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 833 ROXANNE AVENUE
Name: KIER DELEO	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 213-494-0136	Country:
Source Type: Implementer	Zip Code: 90815
Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 833 ROXANNE AVENUE
Name: KIER DELEO	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 213-494-0136	Country:
Source Type: Implementer	Zip Code: 90815

[37](#) 2 of 2 **SSW** **0.13 / 678.97** **12.11 / -2** **KIER DELEO
833 ROXANNE AVE
LONG BEACH CA 90815** **RCRA
NON GEN**

EPA Handler ID: CAC003189235
Gen Status Universe: No Report
Contact Name: KIER DELEO
Contact Address: 833 ROXANNE AVE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 818-446-9908
Contact Email: KDELEO@CITADELENVIRONMENTAL.COM
Contact Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20220809
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220809
Handler Name: KIER DELEO
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	833 ROXANNE AVE
Name:	KIER DELEO	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	818-446-9908	Country:	
Source Type:	Implementer	Zip Code:	90815

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	833 ROXANNE AVE
Name:	KIER DELEO				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	818-446-9905				Country:	
Source Type:	Implementer				Zip Code:	90815

38	1 of 1	S	0.17 / 873.52	11.93 / -2	JEAN BAUER 6870 E ROXANNE WAY LONG BEACH CA 908155015	HAZ GEN
Epa ID:	CAC002721528				Facility County:	19
Address 2:					County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002721528					

39	1 of 1	S	0.19 / 980.70	12.80 / -1	BATES CARL & CATHY 44-100404 824 STEVELY AVE LONG BEACH CA 90816	HAZ GEN
Epa ID:	CAC002910559				Facility County:	
Address 2:					County:	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002910559					

40	1 of 5	S	0.18 / 931.36	11.56 / -3	RAQUEL BLUMENFIELD 6880 E ROXANNE WAY LONG BEACH CA 90815	RCRA NON GEN
EPA Handler ID:	CAC003055094					
Gen Status Universe:	No Report					
Contact Name:	MONICA BLUMENFIELD					
Contact Address:	6880 E ROXANNE WAY , , LONG BEACH , CA, 90815 ,					
Contact Phone No and Ext:	562-673-8745					
Contact Email:	ANAB@PWSEI.COM					
Contact Country:						
County Name:	LOS ANGELES					
EPA Region:	09					
Land Type:						
Receive Date:	20200210					
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200210
Handler Name: RAQUEL BLUMENFIELD
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6880 E ROXANNE WAY
Name: MONICA BLUMENFIELD	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-673-8745	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6880 E ROXANNE WAY
Name: RAQUEL BLUMENFIELD	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-673-8745	Country:
Source Type: Implementer	Zip Code: 90815

40	2 of 5	S	0.18 / 931.36	11.56 / -3	RAQUEL BLUMENFIELD 6880 E ROXANNE WAY LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003055228
Gen Status Universe: No Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Name: RAQUEL BLUMENFIELD
Contact Address: 6880 E ROXANNE WAY , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-673-8745
Contact Email: KRISTINE.RAMOS@PEAS1.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200210
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200210
Handler Name: RAQUEL BLUMENFIELD
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6880 E ROXANNE WAY
Name:	RAQUEL BLUMENFIELD	Street 2:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:				City:	LONG BEACH	
Date Ended Current:				State:	CA	
Phone:	562-673-8745			Country:		
Source Type:	Implementer			Zip Code:	90815	
Owner/Operator Ind:				Street No:		
Type:	Other			Street 1:	6880 E ROXANNE WAY	
Name:	RAQUEL BLUMENFIELD			Street 2:		
Date Became Current:				City:	LONG BEACH	
Date Ended Current:				State:	CA	
Phone:	562-673-8745			Country:		
Source Type:	Implementer			Zip Code:	90815	

[40](#) 3 of 5 S 0.18 / 931.36 11.56 / -3 **MONICA OR RAQUEL BLUMENFIELD
6880 E ROXANNE WAY
LONG BEACH CA 90815-5015** **RCRA
NON GEN**

EPA Handler ID: CAC003057533
Gen Status Universe: No Report
Contact Name: MONICA OR RAQUEL BLUMENFIELD
Contact Address: 6880 E ROXANNE WAY , , LONG BEACH , CA, 90815-5015 ,
Contact Phone No and Ext: 562-673-8745
Contact Email: NANCYRUIZ@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200225
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20200225
 Handler Name: MONICA OR RAQUEL BLUMENFIELD
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6880 E ROXANNE WAY
Name:	MONICA OR RAQUEL BLUMENFIELD	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-673-8745	Country:	
Source Type:	Implementer	Zip Code:	90815-5015

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6880 E ROXANNE WAY
Name:	MONICA OR RAQUEL BLUMENFIELD	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-673-8745	Country:	
Source Type:	Implementer	Zip Code:	90815-5015

40	4 of 5	S	0.18 / 931.36	11.56 / -3	RAQUEL BLUMENFIELD 6880 E ROXANNE WAY LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070726804
 FIPS Code: 06037
 HUC Code:
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 03-MAY-20
 Update Date:
 Interest Types: UNSPECIFIED UNIVERSE
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor:
 Federal Facility Code:
 Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070726804
Program Acronyms:
 RCRAINFO:CAC003055094, RCRAINFO:CAC003055228

40	5 of 5	S	0.18 / 931.36	11.56 / -3	MONICA OR RAQUEL BLUMENFIELD 6880 E ROXANNE WAY LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070807526
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-JUN-20
Update Date: 23-SEP-20
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070807526

Program Acronyms:

RCRAINFO:CAC003057533

41	1 of 1	N	0.07 / 360.52	12.39 / -2	GRUNEWALD, CARMEN 6825 E. ESPANITA ST. LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002843618

Facility County: 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002843618>

42	1 of 1	SSW	0.08 / 414.20	10.83 / -3	HUE DANG 833 KALLIN AVE LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002868293

Facility County: 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002868293>

43	1 of 2	NNE	0.17 / 918.82	12.06 / -2	DEBORAH DELFS 6920 E DRISCOLL ST LONG BEACH CA 90815-4809	RCRA NON GEN
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EPA Handler ID: CAC003029887

Gen Status Universe: No Report

Contact Name: DEBORAH DELFS

Contact Address: 6920 E DRISCOLL ST , , LONG BEACH , CA, 90815-4809 ,

Contact Phone No and Ext: 562-884-5490

Contact Email: KRISTINAR@PWSEI.COM

Contact Country:

County Name: LOS ANGELES

EPA Region: 09

Land Type:

Receive Date: 20190819

Location Latitude:

Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190819
Handler Name: DEBORAH DELFS
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6920 E DRISCOLL ST
Name:	DEBORAH DELFS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-884-5490	Country:	
Source Type:	Implementer	Zip Code:	90815-4809

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6920 E DRISCOLL ST
Name:	DEBORAH DELFS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-884-5490	Country:	
Source Type:	Implementer	Zip Code:	90815-4809

[43](#)

2 of 2

NNE

0.17 /
918.82

12.06 /
-2

**DEBORAH DELFS
6920 E DRISCOLL ST
LONG BEACH CA 90815-4809**

FINDS/FRS

Registry ID: 110070661070

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
FIPS Code:		06037				
HUC Code:						
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		26-NOV-19				
Update Date:						
Interest Types:		UNSPECIFIED UNIVERSE				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070661070				
Program Acronyms:						
RCRAINFO:CAC003029887						

44	1 of 1	NNE	0.20 / 1,039.84	12.08 / -2	SHERRY SPAN 6934 E DRISCOLL STREET LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC003120662
Gen Status Universe:	No Report
Contact Name:	SHERRY SPAN
Contact Address:	6934 E DRISCOLL STREET , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	562-822-7429
Contact Email:	SHERRY.SPAN@GMAIL.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20210520
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210520
Handler Name: SHERRY SPAN
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6934 E DRISCOLL STREET
Name: SHERRY SPAN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-822-7429	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6934 E DRISCOLL STREET
Name: SHERRY SPAN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-822-7429	Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:	Implementer			Zip Code:	90815	

45	1 of 1	NNE	0.13 / 670.67	12.34 / -2	PATRICIA & STEVE WILLIAMS 6854 E DRISCOLL ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003072165
Gen Status Universe: No Report
Contact Name: PATRICIA & STEVE WILLIAMS
Contact Address: 6854 E DRISCOLL ST , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-212-1801
Contact Email: GENEVADEGUIRE@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200624
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200624
Handler Name: PATRICIA & STEVE WILLIAMS
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<u>Owner/Operator Details</u>						
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	6854 E DRISCOLL ST
Name:	PATRICIA & STEVE WILLIAMS				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-212-1801				Country:	
Source Type:	Implementer				Zip Code:	90815
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Other				Street 1:	6854 E DRISCOLL ST
Name:	PATRICIA & STEVE WILLIAMS				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-212-1801				Country:	
Source Type:	Implementer				Zip Code:	90815
46	1 of 1	NE	0.22 / 1,165.14	11.86 / -2	DAVID YZIAS 6946 E DRISCOLL AVE LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002941895				Facility County:	19
Address 2:					County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002941895					
47	1 of 1	SW	0.03 / 160.52	12.14 / -2	LINDA DAVIS 850 LEES AVE LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002799609				Facility County:	19
Address 2:					County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002799609					
48	1 of 1	NE	0.22 / 1,160.87	12.32 / -2	JONATHAN BRIMLEY 6947 E DRISCOLL ST LONG BEACH CA 908154810	HAZ GEN
Epa ID:	CAC002869593				Facility County:	19
Address 2:					County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002869593					
49	1 of 1	SW	0.03 / 160.34	12.88 / -1	KATHERINE MALONE 846 LEES AVE LONG BEACH CA 90815	HAZ GEN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Epa ID:	CAC002907823				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002907823					

[50](#) 1 of 2 WSW 0.07 / 357.72 14.29 / 0 HILL MIDDLE SCHOOL GYMNASIUM PROJECT 1100 IROQUOIS AVENUE LONG BEACH CA 90815 ENVIROSTOR

Estor/EPA ID:	60002322	Assembly District:	, 70
Site Code:	404928	Senate District:	, 34
Nat Priority List:	NO	Permit Renewal Lead:	
APN:	7239-018-900	Public Partici Spclst:	
Census Tract:	6037574602	Project Manager:	
Site Type:	SCHOOL	County:	LOS ANGELES
Address Description:	1100 IROQUOIS AVENUE	Latitude:	33.779701
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH	Longitude:	-118.104203
Special Program:		Acres:	1.23 ACRES
Funding:	SCHOOL DISTRICT	Supervisor:	SHAHIR HADDAD
Cleanup Status:	NO FURTHER ACTION AS OF 1/19/2018		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
School District:	LONG BEACH UNIFIED SCHOOL DISTRICT		
Past Use that Caused Contam:	SCHOOL - MIDDLE		
Potential Media Affected:	SOIL		
Site History:			

The Site consists of two approximately rectangular areas located at Hill Middle School, designated as Areas A and B. Area A is located on the east-central portion of the school, is approximately 36,000 sq. ft. in size, and is currently occupied by the school gymnasium (Bldg 500) that was constructed in 1959. Area B is located in the southern-central portion of the school, is approximately 17,400 sq. ft. in size, and is occupied by lawn and a lunch shelter. Building 708, a relocatable classroom installed in 2001, was located within Area B; however, it was removed in June 2015.

Area A is used as a gymnasium which is proposed to be demolished and converted to an athletic court area. Area B is used as a lunch shelter and lawn and is proposed to be redeveloped with a locker facility.

The Phase I and Phase II (Sept. 5, 2015 and March 8, 2016, respectively) indicated elevated levels of organochlorine pesticides at the Site. DTSC issued a Further Action determination letter on May 9, 2016 for additional investigation to determine the lateral and vertical extent of impacted soil at the Site.

On July 29, 2016, the District submitted a proposal for Phase II site assessment and a bench scale pilot test to treat elevated chlordane and heptachlor detections at the Site. The District modified the project acreage and restricted it to 0.6 acres in Area A.

On June 22, 2017, the District notified DTSC that they have elected to proceed with the project as a construction response without DTSC oversight

December 19, 2017: During construction response activities, approximately 99 cubic yards (CY) of OCP-impacted soil was excavated and disposed of offsite. Approximately 21 CY of soil was treated segregated, treated, and disposed of at the Clean Harbors Inc. Aragonite Incineration Facility in Grantsville, Utah. The remaining 78 CY of impacted soil was treated as RCRA hazardous waste and disposed of at Waste Management's Kettleman Hills facility. After all contaminated soil was excavated, confirmatory soil sampling was conducted.

Based on sampling results, the Report concluded that there is no significant risk from the Site and recommended no further action. DTSC concurred with these conclusions and recommendations and approved the Report.

Potential Contaminant of Concern:

CHLORDANE
HEPTACHLOR

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:		NO FURTHER ACTION				
Program Type:		SCHOOL CLEANUP				
CalEnviroScreen Score:		10-15%				
Summary Link:		https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002322				

Completed Activities

Title: Construction Response
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60429837
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Report
Date Completed: 12/19/2017
Comments: DTSC approved the construction response with No Further Action

Title: Community Profile
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Community Profile
Date Completed: 6/22/2017
Comments: The project is CEQA-exempt and no new property will be leased or acquired as part of the project. The District elected to continue without DTSC oversight.

Title: Cost Exceedance Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60429836
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 8/28/2017
Comments: DTSC issued a letter regarding cost exceedance

Title: Annual Cost Oversight Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60416711
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/14/2016
Comments: DTSC prepared an annual oversight cost estimate for 2016-2017

Title: Annual Cost Estimate-Fiscal Years 15/16 & 16/17
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60408921
Area Name:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Annual Oversight Cost Estimate				
Date Completed:		4/27/2016				
Comments:		Annual Cost Estimate for FYs 15/16 & 16/17 sent to District via regular mail on 04/27/16.				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60429839				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Annual Oversight Cost Estimate				
Date Completed:		8/31/2017				
Comments:		DTSC issued annual cost estimate letter on 8/31/17.				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60407273				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Preliminary Endangerment Assessment Report				
Date Completed:		6/1/2016				
Comments:		DTSC approved the PEA with a Further Action determination				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60407367				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Workplan				
Date Completed:		11/14/2016				
Comments:		DTSC approved the pilot test workplan for implementation provided comments are addressed in the field/future report				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60416709				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Report				
Date Completed:		11/10/2016				
Comments:		DTSC approved the vapor intrusion evaluation report				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60413360				
Area Name:						
Area Link:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sub Area:

Sub Area Link:

Document Type: Supplemental Site Investigation Tech Memo

Date Completed: 8/10/2016

Comments: DTSC concurred with the proposed indoor air sampling workplan

50	2 of 2	WSW	0.07 / 357.72	14.29 / 0	HILL MIDDLE SCHOOL GYMNASIUM PROJECT 1100 IROQUOIS AVENUE LONG BEACH CA 90815	SCH
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Estor/EPA ID:	60002322	Permit Renewal Lead:	
Site Code:	404928	Project Manager:	
Nat Priority List:	NO	Supervisor:	SHAHIR HADDAD
Acres:	1.23 ACRES	Public Partici Spclst:	
Special Program:		Census Tract:	6037574602
Funding:	SCHOOL DISTRICT	County:	LOS ANGELES
Assembly District:	, 70	Latitude:	33.779701
Senate District:	, 34	Longitude:	-118.104203
School District:	LONG BEACH UNIFIED SCHOOL DISTRICT		
APN:	7239-018-900		
Cleanup Status:	NO FURTHER ACTION AS OF 1/19/2018		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
Site Type:	SCHOOL		
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH		
Past Use that Caused Contam:	SCHOOL - MIDDLE		
Potential Media Affected:	SOIL		
Potential Contamin of Concern:			

CHLORDANE
HEPTACHLOR

SITE HISTORY:

The Site consists of two approximately rectangular areas located at Hill Middle School, designated as Areas A and B. Area A is located on the east-central portion of the school, is approximately 36,000 sq. ft. in size, and is currently occupied by the school gymnasium (Bldg 500) that was constructed in 1959. Area B is located in the southern-central portion of the school, is approximately 17,400 sq. ft. in size, and is occupied by lawn and a lunch shelter. Building 708, a relocatable classroom installed in 2001, was located within Area B; however, it was removed in June 2015.

Area A is used as a gymnasium which is proposed to be demolished and converted to an athletic court area. Area B is used as a lunch shelter and lawn and is proposed to be redeveloped with a locker facility.

The Phase I and Phase II (Sept. 5, 2015 and March 8, 2016, respectively) indicated elevated levels of organochlorine pesticides at the Site. DTSC issued a Further Action determination letter on May 9, 2016 for additional investigation to determine the lateral and vertical extent of impacted soil at the Site.

On July 29, 2016, the District submitted a proposal for Phase II site assessment and a bench scale pilot test to treat elevated chlordane and heptachlor detections at the Site. The District modified the project acreage and restricted it to 0.6 acres in Area A.

On June 22, 2017, the District notified DTSC that they have elected to proceed with the project as a construction response without DTSC oversight

December 19, 2017: During construction response activities, approximately 99 cubic yards (CY) of OCP-impacted soil was excavated and disposed of offsite. Approximately 21 CY of soil was treated segregated, treated, and disposed of at the Clean Harbors Inc. Aragonite Incineration Facility in Grantsville, Utah. The remaining 78 CY of impacted soil was treated as RCRA hazardous waste and disposed of at Waste Management's Kettleman Hills facility. After all contaminated soil was excavated, confirmatory soil sampling was conducted.

Based on sampling results, the Report concluded that there is no significant risk from the Site and recommended no further action. DTSC concurred with these conclusions and recommendations and approved the Report.

Status: NO FURTHER ACTION

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Program Type:		SCHOOL CLEANUP				
CalEnviroScreen Score:		10-15%				
Summary Link:		https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002322				
<u>Completed Activities</u>						
Title:		Community Profile				
Title Link:						
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Community Profile				
Date Completed:		6/22/2017				
Comments:		The project is CEQA-exempt and no new property will be leased or acquired as part of the project. The District elected to continue without DTSC oversight.				
Title:		OCP Vapor Intrusion Evaluation Report				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60416709				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Report				
Date Completed:		11/10/2016				
Comments:		DTSC approved the vapor intrusion evaluation report				
Title:		Annual Cost Oversight Estimate				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60416711				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Annual Oversight Cost Estimate				
Date Completed:		9/14/2016				
Comments:		DTSC prepared an annual oversight cost estimate for 2016-2017				
Title:		Construction Response				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60429837				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Report				
Date Completed:		12/19/2017				
Comments:		DTSC approved the construction response with No Further Action				
Title:		Cost Exceedance Letter				
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60429836				
Area Name:						
Area Link:						

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Sub Area:						
Sub Area Link:						
Document Type:		Correspondence				
Date Completed:		8/28/2017				
Comments:		DTSC issued a letter regarding cost exceedance				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60407367				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Workplan				
Date Completed:		11/14/2016				
Comments:		DTSC approved the pilot test workplan for implementation provided comments are addressed in the field/future report				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60413360				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Supplemental Site Investigation Tech Memo				
Date Completed:		8/10/2016				
Comments:		DTSC concurred with the proposed indoor air sampling workplan				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60408921				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Annual Oversight Cost Estimate				
Date Completed:		4/27/2016				
Comments:		Annual Cost Estimate for FYs 15/16 & 16/17 sent to District via regular mail on 04/27/16.				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&enforcement_id=60429839				
Area Name:						
Area Link:						
Sub Area:						
Sub Area Link:						
Document Type:		Annual Oversight Cost Estimate				
Date Completed:		8/31/2017				
Comments:		DTSC issued annual cost estimate letter on 8/31/17.				
Title:						
Title Link:		https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002322&doc_id=60407273				
Area Name:						
Area Link:						
Sub Area:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Sub Area Link:						
Document Type:		Preliminary Endangerment Assessment Report				
Date Completed:		6/1/2016				
Comments:		DTSC approved the PEA with a Further Action determination				
51	1 of 1	N	0.06 / 300.31	12.61 / -2	RUSINAS, PATRICIA 6817 E DRISCOLL ST LONG BEACH CA 908154808	HAZ GEN
Epa ID:	CAC002760814		Facility County:		19	
Address 2:			County:		Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002760814					
52	1 of 1	S	0.11 / 592.73	10.74 / -4	BRYAN RUSSEL 6841 E KALLIN WAY LONG BEACH CA 908155007	HAZ GEN
Epa ID:	CAC002749485		Facility County:		19	
Address 2:			County:		Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002749485					
53	1 of 1	S	0.13 / 704.77	11.24 / -3	ANDREA GOESCH 6860 E KALLIN WAY LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002695710		Facility County:		19	
Address 2:			County:		Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002695710					
54	1 of 1	SSW	0.03 / 160.18	12.15 / -2	ALONSO DELGADO 834 LEES AVENUE LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002913926		Facility County:		19	
Address 2:			County:		Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002913926					
55	1 of 1	NNW	0.04 / 196.39	11.63 / -3	ROBIN LOVELY 6707 E. BACARRO ST LONG BEACH CA 90815	RCRA NON GEN
EPA Handler ID:	CAC003091084					
Gen Status Universe:	No Report					
Contact Name:	ROBIN LOVELY					
Contact Address:	6707 E. BACARRO ST , , LONG BEACH , CA, 90815 ,					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Contact Phone No and Ext:		562-858-6844				
Contact Email:		TONYCORONEL8413@GMAIL.COM				
Contact Country:						
County Name:		LOS ANGELES				
EPA Region:		09				
Land Type:						
Receive Date:		20201102				
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20201102
Handler Name: ROBIN LOVELY
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6707 E. BACARRO ST
Name:	ROBIN LOVELY	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone:	562-858-6844				Country:	
Source Type:	Implementer				Zip Code:	90815
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	6707 E. BACARRO ST
Name:	ROBIN LOVELY				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-858-6844				Country:	
Source Type:	Implementer				Zip Code:	90815

56	1 of 8	W	0.12 / 615.47	10.73 / -4	LOS ALTOS PUMPING PLANT 6560 ANAHEIM ROAD Long Beach CA 90815	DELISTED TNK
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Delisted Storage Tanks

Facility ID:	19-060-010782	County:	Los Angeles
Latitude:	33.78151	Original Source:	UST
Longitude:	-118.10321	Record Date:	30-JAN-2017
Permitting Agency:	LONG BEACH, CITY OF		

56	2 of 8	W	0.12 / 615.47	10.73 / -4	LOS ALTOS PUMP PLANT 6560 ANAHEIM RD. LONG BEACH CA 90815	HHSS
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County:	Los Angeles
Tank Details Microfiche:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000276bb.pdf

56	3 of 8	W	0.12 / 615.47	10.73 / -4	L A COUNTY PUBLIC WORKS/FLOOD MAINT. 6560 ANAHEIM RD LONG BEACH CA 00000000	HAZNET
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SIC Code:		Mailing City:	ALHAMBRA
NAICS Code:		Mailing State:	CA
EPA ID:	CAC000738344	Mailing Zip:	918027508
Create Date:	9/28/1994	Region Code:	3
Fac Act Ind:	No	Owner Name:	LOS ANGELES COUNTY
Inact Date:	12/31/1899	Owner Addr 1:	--
County Code:	19	Owner Addr 2:	--
County Name:	Los Angeles	Owner City:	--
Mail Name:		Owner State:	99
Mailing Addr 1:	P O BOX 7508	Owner Zip:	--
Mailing Addr 2:		Owner Phone:	000000000
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC000738344>

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
56	4 of 8	W	0.12 / 615.47	10.73 / -4	LA COUNTY, DEPT OF PUBLIC WORK 6560 ANAHEIM RD LONG BEACH CA	EMISSIONS

1990 Criteria Data

Facility ID:	71546	CERR Code:	
Facility SIC Code:	9199	TOGT:	.4
CO:	19	ROGT:	.3514
Air Basin:	SC	COT:	1.2
District:	SC	NOXT:	1.9
COID:	LA	SOXT:	.1
DISN:	SOUTH COAST AQMD	PMT:	.4
CHAPIS:		PM10T:	.3904

1990 Toxic Data

Facility ID:	71546	COID:	LA
Facility SIC Code:	9199	DISN:	SOUTH COAST AQMD
CO:	19	CHAPIS:	
Air Basin:	SC	CERR Code:	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

56	5 of 8	W	0.12 / 615.47	10.73 / -4	LA COUNTY, LOS ALTOS PP 6560 ANAHEIM RD LONG BEACH CA 90815-0000	FINDS/FRS
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Registry ID:	110070451538
FIPS Code:	06037
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	02-JAN-19
Update Date:	
Interest Types:	OTHER HAZARDOUS WASTE ACTIVITIES, TRANSPORTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070451538
Program Acronyms:
 RCRAINFO:CAL000220058

56	6 of 8	W	0.12 / 615.47	10.73 / -4	LOS ALTOS PUMPING PLANT 6560 ANAHEIM RD LONG BEACH CA	UST SWEEPS
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C C:	A19-060-34054	D Filename:	SITE01A
BOE:	44-033826	Page No:	13
Comp:	34054	County:	LOS ANGELES
Status:	ACTIVE	State :	CA
No of Tanks:	1	Zip:	90815
Jurisdic:	CITY OF LONG BEACH	Latitude:	0
Agency:	FIRE DEPARTMENT	Longitude:	0
Phone:		Georesult:	N

Tank Details

Tank ID:	000001	S Contain:	
O Tank ID:	J393828	Stg:	P
SWRCB No:	19-060-034054-000001	Storage :	
Removed:		Storag Type:	PRODUCT
Installed:		P Contain:	
A Date:	07-13-93	Content:	DIESEL
Capac:	1000	ONA:	
Tank Use:	M.V. FUEL	D File Name:	TANK1A

56	7 of 8	W	0.12 / 615.47	10.73 / -4	LA COUNTY, LOS ALTOS PP 6560 ANAHEIM RD LONG BEACH CA 90815-0000	RCRA LQG
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EPA Handler ID: CAL000220058
Gen Status Universe: Large Quantity Generator
Contact Name: ADRIANA FLORES
Contact Address: 900 SOUTH FREMONT AVE. , , ALHAMBRA , CA, 91803-1331 , US
Contact Phone No and Ext: 626-458-7390
Contact Email: AFLORES@DPW.LACOUNTY.GOV

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Country:	US
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	County
Receive Date:	20220210
Location Latitude:	33.781493
Location Longitude:	-118.103336

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20000925
Handler Name:	LA COUNTY, LOS ALTOS PP
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20220210
Handler Name:	LA COUNTY, LOS ALTOS PP
Federal Waste Generator Code:	1
Generator Code Description:	Large Quantity Generator
Source Type:	Annual/Biennial Report update with Notification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Details

Hazardous Waste Code: 181
Waste Code Description: Other inorganic solid waste

Hazardous Waste Code: D004
Waste Code Description: ARSENIC

Hazardous Waste Code: D008
Waste Code Description: LEAD

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 900 SOUTH FREMONT AVE.
Name: ADRIANA FLORES	Street 2:
Date Became Current:	City: ALHAMBRA
Date Ended Current:	State: CA
Phone: 626-458-7390	Country:
Source Type: Implementer	Zip Code: 91803-1331

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 900 SOUTH FREMONT AVE.
Name: ADRIANA FLORES	Street 2:
Date Became Current: 19590101	City: ALHAMBRA
Date Ended Current:	State: CA
Phone: 626-458-7390	Country: US
Source Type: Annual/Biennial Report update with Notification	Zip Code: 91803-1331

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 900 S FREMONT AVE
Name: LA COUNTY PUBLIC WORKS	Street 2:
Date Became Current: 19590101	City: ALHAMBRA
Date Ended Current:	State: CA
Phone: 626-458-7390	Country: US
Source Type: Annual/Biennial Report update with Notification	Zip Code: 91803-1331

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 900 S FREMONT AVE
Name: LA COUNTY PUBLIC WORKS	Street 2:
Date Became Current:	City: ALHAMBRA
Date Ended Current:	State: CA
Phone: 626-458-7390	Country:
Source Type: Implementer	Zip Code: 91803-1331

Historical Handler Details

Receive Dt: 20000925
Generator Code Description: Not a Generator, Verified
Handler Name: LA COUNTY, LOS ALTOS PP

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
56	8 of 8	W	0.12 / 615.47	10.73 / -4	LA COUNTY, LOS ALTOS PP 6560 ANAHEIM RD LONG BEACH CA 908150000	HAZ GEN

Epa ID: CAL000220058 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAL000220058>

57	1 of 1	NNW	0.04 / 219.01	11.90 / -2	WILLIAM ELGIN 6701 BACARRO ST LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002558379 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002558379>

58	1 of 3	SSW	0.03 / 156.18	11.52 / -3	LORNA ROLAND 830 LEES AVE LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110011584918
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 24-APR-02
Interest Types: COMPLIANCE ACTIVITY
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46
Census Block Code: 060375745002027
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 33.7771
Longitude: -118.10188
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110011584918				
Program Acronyms:						
NCDB:C09#99-16, NCDB:I09#1999033114480 1						

58	2 of 3	SSW	0.03 / 156.18	11.52 / -3	SILVIA GARBIN 830 LEES AVENUE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003164980
Gen Status Universe: No Report
Contact Name: SILVIA GARBIN
Contact Address: 830 LEES AVENUE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-280-5453
Contact Email: KARLA@SUPERIORENV.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20220307
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sequence No: 1
Receive Date: 20220307
Handler Name: SILVIA GARBIN
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	830 LEES AVENUE
Name:	SILVIA GARBIN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-280-5453	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	830 LEES AVENUE
Name:	SILVIA GARBIN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-280-5453	Country:	
Source Type:	Implementer	Zip Code:	90815

58	3 of 3	SSW	0.03 / 156.18	11.52 / -3	DAVE GARBIN 830 LEES AVE LONG BEACH CA 908155010	HAZ GEN
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Epa ID: CAC002735438 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002735438>

59	1 of 1	WNW	0.11 / 575.91	10.94 / -3	MARY AND WAYNE JOHNSON 6541 E MANTOVA ST LONG BEACH CA 908154661	HAZNET
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SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC002790517	Mailing Zip:	908154661
Create Date:	10/21/2014	Region Code:	3
Fac Act Ind:	No	Owner Name:	MARY AND WAYNE JOHNSON
Inact Date:	1/20/2015	Owner Addr 1:	6541 E MANTOVA ST
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	6541 E MANTOVA ST	Owner Zip:	908154661
Mailing Addr 2:		Owner Phone:	5625981509
Owner Fax:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
DTSC Handler Profile url: https://hwts.dtsc.ca.gov/facility/CAC002790517						
60	1 of 1	NNE	0.13 / 705.67	12.75 / -2	DIANA FICKLIN 6957 E GOLDCREST ST LONG BEACH CA 90815	HAZ GEN
Epa ID: CAC002714533 Facility County: 19						
Address 2: County: Los Angeles						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002714533						
61	1 of 1	NW	0.07 / 366.36	11.52 / -3	VALERIE EDEN BEACHLEY 1414 VUELTA GRANDE AVE LONG BEACH CA 90815	HAZ GEN
Epa ID: CAC002898326 Facility County: 19						
Address 2: County: Los Angeles						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002898326						
62	1 of 1	SSW	0.03 / 140.94	10.88 / -3	QUINALTY TERRY 44-85145 821 LEES AVENUE LONG BEACH CA 90815	HAZ GEN
Epa ID: CAC002795469 Facility County:						
Address 2: County:						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002795469						
63	1 of 1	SW	0.04 / 201.92	-1.64 / -16	L.A.COUNTY PUBLIC WORKS FLOOD MAINT. 6560 ANAHEIM LONG BEACH CA 90815000	HAZ GEN
Epa ID: CAC001207736 Facility County: 19						
Address 2: County: Los Angeles						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC001207736						
64	1 of 1	SE	0.21 / 1,110.03	9.70 / -5	JOHN HAUCK 161 HARVARD LN SEAL BEACH CA 907402508	HAZ GEN
Epa ID: CAC002835942 Facility County: 30						
Address 2: County: Orange						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002835942>

65	1 of 2	S	0.09 / 457.85	11.44 / -3	MARK NAITHAUS 6890 E LEES WAY LONG BEACH CA 90815-5011	RCRA NON GEN
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EPA Handler ID: CAC003038990
Gen Status Universe: No Report
Contact Name: MARK NAITHAUS
Contact Address: 6890 E LEES WAY , , LONG BEACH , CA, 90815-5011 ,
Contact Phone No and Ext: 714-917-4478
Contact Email: KC@AQHIINC.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20191016
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20191016
Handler Name: MARK NAITHAUS
Source Type: Implementer

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6890 E LEES WAY
Name:	MARK NAITHAUS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-917-4478	Country:	
Source Type:	Implementer	Zip Code:	90815-5011

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6890 E LEES WAY
Name:	MARK NAITHAUS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-917-4478	Country:	
Source Type:	Implementer	Zip Code:	90815-5011

65	2 of 2	S	0.09 / 457.85	11.44 / -3	MARK NAITHAUS 6890 E LEES WAY LONG BEACH CA 90815-5011	FINDS/FRS
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Registry ID: 110070653281
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 26-NOV-19
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Coord Collection Method:

Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070653281

Program Acronyms:

RCRAINFO: CAC003038990

66	1 of 2	NNW	0.08 / 430.13	10.50 / -4	CASSIE HALVORSON 6710 E ESPANITA ST LONG BEACH CA 908154851	HAZ GEN
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Epa ID: CAC002761465

Facility County: 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002761465>

66	2 of 2	NNW	0.08 / 430.13	10.50 / -4	SARAH PETERSON 6710 E ESPANITA ST LONG BEACH CA 908154851	HAZ GEN
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Epa ID: CAC002748805

Facility County: 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002748805>

67	1 of 1	SE	0.19 / 1,010.34	9.47 / -5	REED, PATRICIA 153 HARVARD LN SEAL BEACH CA 907402508	HAZ GEN
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Epa ID: CAC002771311

Facility County: 30

Address 2: **County:** Orange

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002771311>

68	1 of 1	WNW	0.14 / 745.15	10.88 / -3	JOHN THOMETZ 6520 E DELEON ST. LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002902672

Facility County: 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002902672>

69	1 of 2	WNW	0.14 / 750.11	10.00 / -4	RON HODGE 6521 E DE LEON ST	RCRA NON GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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LONG BEACH CA 90815-4628

EPA Handler ID: CAC003041583
Gen Status Universe: No Report
Contact Name: RON HODGE
Contact Address: 6521 E DE LEON ST , , LONG BEACH , CA, 90815-4628 ,
Contact Phone No and Ext: 562-787-9039
Contact Email: NANCYRUIZ@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20191101
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20191101
Handler Name: RON HODGE
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	6521 E DE LEON ST
Name:	RON HODGE				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-787-9039				Country:	
Source Type:	Implementer				Zip Code:	90815-4628
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Other				Street 1:	6521 E DE LEON ST
Name:	RON HODGE				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-787-9039				Country:	
Source Type:	Implementer				Zip Code:	90815-4628

[69](#) 2 of 2 **WNW** 0.14 / 750.11 10.00 / -4 **RON HODGE
6521 E DE LEON ST
LONG BEACH CA 90815-4628** **FINDS/FRS**

Registry ID: 110070650949
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 26-NOV-19
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070650949

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Program Acronyms:

RCRAINFO:CAC003041583

70	1 of 2	SE	0.18 / 931.62	9.64 / -5	EVAN BADER 144 HARVARD LN SEAL BEACH CA 90740-2509	RCRA NON GEN
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EPA Handler ID: CAC003026971
Gen Status Universe: No Report
Contact Name: EVAN BADER
Contact Address: 144 HARVARD LN , , SEAL BEACH , CA, 90740-2509 ,
Contact Phone No and Ext: 310-279-2957
Contact Email: MANIFEST.SIRRIIS@GMAIL.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:
Receive Date: 20190731
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190731

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Name: EVAN BADER
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	144 HARVARD LN
Name:	EVAN BADER	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	310-279-2957	Country:	
Source Type:	Implementer	Zip Code:	90740-2509

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	144 HARVARD LN
Name:	EVAN BADER	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	310-279-2957	Country:	
Source Type:	Implementer	Zip Code:	90740-2509

70	2 of 2	SE	0.18 / 931.62	9.64 / -5	EVAN BADER 144 HARVARD LN SEAL BEACH CA 90740-2509	FINDS/FRS
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Registry ID: 110070651846
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 26-NOV-19
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Longitude:

Reference Point:

Coord Collection Method:

Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070651846

Program Acronyms:

RCRAINFO:CAC003026971

71	1 of 1	SE	0.17 / 890.37	9.24 / -5	FRENCH, LAURA 145 HARVARD LN SEAL BEACH CA 907402508	HAZ GEN
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Epa ID: CAC002807744

Facility County: 30

Address 2: County: Orange

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:

<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002807744>

72	1 of 2	WNW	0.15 / 805.70	10.74 / -4	LISA WICKER 6510 E DE LEON ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC002984551

Gen Status Universe: No Report

Contact Name: LISA WICKER

Contact Address: 6510 E DE LEON ST , , LONG BEACH , CA, 90815 ,

Contact Phone No and Ext: 213-738-6120

Contact Email: SARAH@PWSEI.COM

Contact Country:

County Name: LOS ANGELES

EPA Region: 09

Land Type:

Receive Date: 20181011

Location Latitude: 33.783794

Location Longitude: -118.105142

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No

Mixed Waste Generator: No

Transporter Activity: No

Transfer Facility: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20181011
 Handler Name: LISA WICKER
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6510 E DE LEON ST
Name:	LISA WICKER	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	213-738-6120	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6510 E DE LEON ST
Name:	LISA WICKER	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	213-738-6120	Country:	
Source Type:	Implementer	Zip Code:	90815

[72](#) 2 of 2 **WNW** 0.15 / 805.70 10.74 / -4 **LISA WICKER
6510 E DE LEON ST
LONG BEACH CA 90815** **FINDS/FRS**

Registry ID: 110070406836
 FIPS Code: 06037
 HUC Code:
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 31-DEC-18
 Update Date:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070406836
Program Acronyms:
 RCRAINFO:CAC002984551

73	1 of 1	NNW	0.08 / 410.87	11.03 / -3	BEN MORGAN 6734 E DRISCOLL ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003114388
Gen Status Universe: No Report
Contact Name: BEN MORGAN
Contact Address: 6734 E DRISCOLL ST , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-277-3212
Contact Email: SCHEDULING@PWSEI.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20210412
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210412
Handler Name: BEN MORGAN
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6734 E DRISCOLL ST
Name:	BEN MORGAN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-277-3212	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6734 E DRISCOLL ST
Name:	BEN MORGAN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-277-3212	Country:	
Source Type:	Implementer	Zip Code:	90815

74	1 of 1	ESE	0.23 / 1,194.93	8.65 / -6	ELINORE RICHARDSON 153 STANFORD LN SEAL BEACH CA 907402533	HAZ GEN
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Epa ID: CAC002688275
Address 2:

Facility County: 30
County: Orange

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002688275>

75	1 of 1	NW	0.11 / 590.69	10.22 / -4	RAYMON GILBERT 1503 VUELTA GRANDE AVE LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002804570 **Facility County:** 19

Address 2: **County:** Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002804570>

76	1 of 1	NNE	0.19 / 1,024.95	13.23 / -1	KATHLEEN TOBIN 1602 PATTIZ AVE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003167012

Gen Status Universe: No Report

Contact Name: KATHLEEN TOBIN

Contact Address: 1602 PATTIZ AVE , , LONG BEACH , CA, 90815 ,

Contact Phone No and Ext: 714-675-4478

Contact Email: KATVEGE@GMAIL.COM

Contact Country:

County Name: LOS ANGELES

EPA Region: 09

Land Type:

Receive Date: 20220318

Location Latitude:

Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No

Mixed Waste Generator: No

Transporter Activity: No

Transfer Facility: No

Onsite Burner Exemption: No

Furnace Exemption: No

Underground Injection Activity: No

Commercial TSD: No

Used Oil Transporter: No

Used Oil Transfer Facility: No

Used Oil Processor: No

Used Oil Refiner: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20220318
 Handler Name: KATHLEEN TOBIN
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1602 PATTIZ AVE
Name:	KATHLEEN TOBIN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-675-4478	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1602 PATTIZ AVE
Name:	KATHLEEN TOBIN	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-675-4478	Country:	
Source Type:	Implementer	Zip Code:	90815

77	1 of 5	W	0.20 / 1,035.50	11.97 / -2	LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL) 1100 IROQUIOS AVENUE LONG BEACH CA 90815-4649	FINDS/FRS
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Registry ID: 110002699615
 FIPS Code: 06037
 HUC Code: 18070106
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 01-MAR-00
 Update Date: 08-AUG-10
 Interest Types: SQG, STATE MASTER
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor: FRS-GEOCODE
 Federal Facility Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46
Census Block Code: 060375746021001
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude: 33.78088
Longitude: -118.106175
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002699615
Program Acronyms:

HWTS-DATAMART:CAD981419849, RCRAINFO:CAD981419849

77	2 of 5	W	0.20 / 1,035.50	11.97 / -2	1X HILL JUNIOR HIGH SCHOOL 1100 IROQUOIS AVE. LONG BEACH CA 913010000	HAZNET
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SIC Code:		Mailing City:	AGOURA HILLS
NAICS Code:		Mailing State:	CA
EPA ID:	CAX000101543	Mailing Zip:	913010000
Create Date:	7/27/1984	Region Code:	3
Fac Act Ind:	No	Owner Name:	--
Inact Date:	4/30/1986	Owner Addr 1:	--
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	--
Mail Name:		Owner State:	99
Mailing Addr 1:	ENVIRONMENTAL SEVICES	Owner Zip:	--
Mailing Addr 2:		Owner Phone:	0000000000

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAX000101543>

77	3 of 5	W	0.20 / 1,035.50	11.97 / -2	1100 IROQUIOS AVENUE LONG BEACH CA 908150000	HIST MANIFEST
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Gen EPA ID: CAD981419849
Create Date: 04/10/1987 0:00
Inact Date:
Facility Mail Street: 2425 WEBSTER AVE
Facility Mail City: LONG BEACH
Facility Mail State: CA
Facility Mail Zip: 908100000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Contact Phone(s):		5629977504				
File Year(s):		1986				
Contact Name(s):		RON HOPPE				

Tanner Information

Method Description:

Tons:	0
Year:	1986
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	
Tsd County Code:	42
Tsd County:	Santa Barbara
State Waste Code:	
State Waste Code Desc:	
Tsd Epa ID:	CAD020748125

Tanner Information

Method Description:

Tons:	0
Year:	1986
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	3
Tsd County Code:	42
Tsd County:	Santa Barbara
State Waste Code:	551
State Waste Code Desc:	Laboratory waste chemicals
Tsd Epa ID:	CAD020748125

Tanner Information

Method Description:

Tons:	1.00E-03
Year:	1986
Generator County Code:	19
Generator County:	Los Angeles
Method Code:	D80
Tsd County Code:	42
Tsd County:	Santa Barbara
State Waste Code:	551
State Waste Code Desc:	Laboratory waste chemicals
Tsd Epa ID:	CAD020748125

77	4 of 5	W	0.20 / 1,035.50	11.97 / -2	LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL) 1100 IROQUIOS AVENUE LONG BEACH CA 90815-0000	RCRA SQG
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<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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EPA Handler ID: CAD981419849
Gen Status Universe: Small Quantity Generator
Contact Name: OLIVIA DAOU
Contact Address: 2425 WEBSTER AVENUE , , LONG BEACH , CA, 90810 , US
Contact Phone No and Ext: 562-997-7550 x1336
Contact Email: ODAOU@LBSCHOOLS.NET
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: District
Receive Date: 20191011
Location Latitude: 33.779933
Location Longitude: -118.106159

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20191011
Handler Name: LBUSD-SATO HIGH SCHOOL (PREVIOUSLY HILL)
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 121

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:					Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)	
Hazardous Waste Code:				D041		
Waste Code Description:					2,4,5-TRICHLOROPHENOL	
Hazardous Waste Code:				D039		
Waste Code Description:					TETRACHLOROETHYLENE	
Hazardous Waste Code:				D037		
Waste Code Description:					PENTACHLOROPHENOL	
Hazardous Waste Code:				D035		
Waste Code Description:					METHYL ETHYL KETONE	
Hazardous Waste Code:				D033		
Waste Code Description:					HEXACHLOROBUTADIENE	
Hazardous Waste Code:				D031		
Waste Code Description:					HEPTACHLOR (AND ITS EPOXIDE)	
Hazardous Waste Code:				D029		
Waste Code Description:					1,1-DICHLOROETHYLENE	
Hazardous Waste Code:				D027		
Waste Code Description:					1,4-DICHLOROBENZENE	
Hazardous Waste Code:				D025		
Waste Code Description:					P-CRESOL	
Hazardous Waste Code:				D023		
Waste Code Description:					O-CRESOL	
Hazardous Waste Code:				D021		
Waste Code Description:					CHLOROBENZENE	
Hazardous Waste Code:				D019		
Waste Code Description:					CARBON TETRACHLORIDE	
Hazardous Waste Code:				D017		
Waste Code Description:					2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)	
Hazardous Waste Code:				D015		
Waste Code Description:					TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)	
Hazardous Waste Code:				D013		
Waste Code Description:					LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)	
Hazardous Waste Code:				D011		
Waste Code Description:					SILVER	
Hazardous Waste Code:				D009		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:			MERCURY			
Hazardous Waste Code:			D007			
Waste Code Description:			CHROMIUM			
Hazardous Waste Code:			D005			
Waste Code Description:			BARIUM			
Hazardous Waste Code:			D002			
Waste Code Description:			CORROSIVE WASTE			
Hazardous Waste Code:			801			
Waste Code Description:			Waste potentially containing dioxins			
Hazardous Waste Code:			791			
Waste Code Description:			Liquids with pH < 2			
Hazardous Waste Code:			741			
Waste Code Description:			Liquids with halogenated organic compounds > 1000 mg/l			
Hazardous Waste Code:			728			
Waste Code Description:			Liquids with thallium > 130 mg/l			
Hazardous Waste Code:			726			
Waste Code Description:			Liquids with nickel > 134 mg/l			
Hazardous Waste Code:			724			
Waste Code Description:			Liquids with lead > 500 mg/l			
Hazardous Waste Code:			722			
Waste Code Description:			Liquids with cadmium > 100 mg/l			
Hazardous Waste Code:			711			
Waste Code Description:			Liquids with cyanides > 1000 mg/l			
Hazardous Waste Code:			613			
Waste Code Description:			Auto shredder waste			
Hazardous Waste Code:			611			
Waste Code Description:			Contaminated soil from site clean-ups			
Hazardous Waste Code:			581			
Waste Code Description:			Gas scrubber waste			
Hazardous Waste Code:			561			
Waste Code Description:			Detergent and soap			
Hazardous Waste Code:			541			
Waste Code Description:			Photochemicals / photo processing waste			
Hazardous Waste Code:			521			
Waste Code Description:			Drilling mud			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			512			
Waste Code Description:			Other empty containers 30 gallons or more			
Hazardous Waste Code:			491			
Waste Code Description:			Unspecified sludge waste			
Hazardous Waste Code:			471			
Waste Code Description:			Paper sludge/pulp			
Hazardous Waste Code:			451			
Waste Code Description:			Degreasing sludge			
Hazardous Waste Code:			D020			
Waste Code Description:			CHLORDANE			
Hazardous Waste Code:			D018			
Waste Code Description:			BENZENE			
Hazardous Waste Code:			D016			
Waste Code Description:			2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)			
Hazardous Waste Code:			D014			
Waste Code Description:			METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)			
Hazardous Waste Code:			D012			
Waste Code Description:			ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-ENDO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)			
Hazardous Waste Code:			D010			
Waste Code Description:			SELENIUM			
Hazardous Waste Code:			D008			
Waste Code Description:			LEAD			
Hazardous Waste Code:			D006			
Waste Code Description:			CADMIUM			
Hazardous Waste Code:			D004			
Waste Code Description:			ARSENIC			
Hazardous Waste Code:			D003			
Waste Code Description:			REACTIVE WASTE			
Hazardous Waste Code:			D024			
Waste Code Description:			M-CRESOL			
Hazardous Waste Code:			D022			
Waste Code Description:			CHLOROFORM			
Hazardous Waste Code:			D001			
Waste Code Description:			IGNITABLE WASTE			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			792			
Waste Code Description:			Liquids with pH < 2 with metals			
Hazardous Waste Code:			751			
Waste Code Description:			Solids or sludge with halogenated organic comp. > 1000 mg/kg			
Hazardous Waste Code:			731			
Waste Code Description:			Liquids with polychlorinated biphenyls > 50 mg/l			
Hazardous Waste Code:			727			
Waste Code Description:			Liquids with selenium > 100 mg/l			
Hazardous Waste Code:			725			
Waste Code Description:			Liquids with mercury > 20 mg/l			
Hazardous Waste Code:			723			
Waste Code Description:			Liquids with chromium (VI) > 500 mg/l			
Hazardous Waste Code:			721			
Waste Code Description:			Liquids with arsenic > 500 mg/l			
Hazardous Waste Code:			614			
Waste Code Description:			Treated wood waste			
Hazardous Waste Code:			612			
Waste Code Description:			Household waste			
Hazardous Waste Code:			591			
Waste Code Description:			Baghouse waste			
Hazardous Waste Code:			571			
Waste Code Description:			Fly ash, bottom ash, and retort ash			
Hazardous Waste Code:			551			
Waste Code Description:			Laboratory waste chemicals			
Hazardous Waste Code:			531			
Waste Code Description:			Chemical toilet waste			
Hazardous Waste Code:			221			
Waste Code Description:			Waste oil and mixed oil			
Hazardous Waste Code:			214			
Waste Code Description:			Unspecified solvent mixture			
Hazardous Waste Code:			213			
Waste Code Description:			Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)			
Hazardous Waste Code:			212			
Waste Code Description:			Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			211			
Waste Code Description:			Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)			
Hazardous Waste Code:			181			
Waste Code Description:			Other inorganic solid waste			
Hazardous Waste Code:			172			
Waste Code Description:			Metal dust (see 121) and machining waste			
Hazardous Waste Code:			171			
Waste Code Description:			Metal sludge (see 121)			
Hazardous Waste Code:			162			
Waste Code Description:			Other spent catalyst			
Hazardous Waste Code:			513			
Waste Code Description:			Empty containers less than 30 gallons			
Hazardous Waste Code:			511			
Waste Code Description:			Empty pesticide containers 30 gallons or more			
Hazardous Waste Code:			481			
Waste Code Description:			Tetraethyl lead sludge			
Hazardous Waste Code:			461			
Waste Code Description:			Degreasing sludge			
Hazardous Waste Code:			441			
Waste Code Description:			Sulfur sludge			
Hazardous Waste Code:			431			
Waste Code Description:			Phosphate sludge			
Hazardous Waste Code:			421			
Waste Code Description:			Lime sludge			
Hazardous Waste Code:			411			
Waste Code Description:			Alum and gypsum sludge			
Hazardous Waste Code:			352			
Waste Code Description:			Other organic solids			
Hazardous Waste Code:			351			
Waste Code Description:			Organic solids with halogens			
Hazardous Waste Code:			343			
Waste Code Description:			Unspecified organic liquid mixture			
Hazardous Waste Code:			342			
Waste Code Description:			Organic liquids with metals (see 121)			
Hazardous Waste Code:			341			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:			Organic liquids (nonsolvents) with halogens			
Hazardous Waste Code:			331			
Waste Code Description:			Off-specification, aged, or surplus organics			
Hazardous Waste Code:			322			
Waste Code Description:			Biological waste other than sewage sludge			
Hazardous Waste Code:			321			
Waste Code Description:			Sewage sludge			
Hazardous Waste Code:			311			
Waste Code Description:			Pharmaceutical waste			
Hazardous Waste Code:			291			
Waste Code Description:			Latex waste			
Hazardous Waste Code:			281			
Waste Code Description:			Adhesives			
Hazardous Waste Code:			272			
Waste Code Description:			Polymeric resin waste			
Hazardous Waste Code:			271			
Waste Code Description:			Organic monomer waste (includes unreacted resins)			
Hazardous Waste Code:			261			
Waste Code Description:			Polychlorinated biphenyls and material containing PCB's			
Hazardous Waste Code:			252			
Waste Code Description:			Other still bottom waste			
Hazardous Waste Code:			251			
Waste Code Description:			Still bottoms with halogenated organics			
Hazardous Waste Code:			241			
Waste Code Description:			Tank bottom waste			
Hazardous Waste Code:			232			
Waste Code Description:			Pesticides and other waste associated with pesticide production			
Hazardous Waste Code:			231			
Waste Code Description:			Pesticide rinse water			
Hazardous Waste Code:			223			
Waste Code Description:			Unspecified oil-containing waste			
Hazardous Waste Code:			222			
Waste Code Description:			Oil/water separation sludge			
Hazardous Waste Code:			161			
Waste Code Description:			Fluid-cracking catalyst (FCC) waste			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			151			
Waste Code Description:			Asbestos-containing waste			
Hazardous Waste Code:			141			
Waste Code Description:			Off-specification, aged, or surplus inorganics			
Hazardous Waste Code:			135			
Waste Code Description:			Unspecified aqueous solution			
Hazardous Waste Code:			134			
Waste Code Description:			Aqueous solution with <10% total organic residues			
Hazardous Waste Code:			133			
Waste Code Description:			Aqueous solution with 10% or more total organic residues			
Hazardous Waste Code:			132			
Waste Code Description:			Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)			
Hazardous Waste Code:			131			
Waste Code Description:			Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)			
Hazardous Waste Code:			123			
Waste Code Description:			Unspecified alkaline solution			
Hazardous Waste Code:			122			
Waste Code Description:			Alkaline solution without metals (pH > 12.5)			
Hazardous Waste Code:			D032			
Waste Code Description:			HEXACHLOROBENZENE			
Hazardous Waste Code:			D030			
Waste Code Description:			2,4-DINITROTOLUENE			
Hazardous Waste Code:			D028			
Waste Code Description:			1,2-DICHLOROETHANE			
Hazardous Waste Code:			D026			
Waste Code Description:			CRESOL			
Hazardous Waste Code:			D043			
Waste Code Description:			VINYL CHLORIDE			
Hazardous Waste Code:			D042			
Waste Code Description:			2,4,6-TRICHLOROPHENOL			
Hazardous Waste Code:			D040			
Waste Code Description:			TRICHLORETHYLENE			
Hazardous Waste Code:			D038			
Waste Code Description:			PYRIDINE			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Code: D036
Waste Code Description: NITROBENZENE

Hazardous Waste Code: D034
Waste Code Description: HEXACHLOROETHANE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860616
Handler Name: LONG BEACH USD-HILL JUNIOR HIGH
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: District	Street 1: 2425 WEBSTER AVE.
Name: LONG BEACH USD	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone:	Country: US
Source Type: Notification	Zip Code: 90810

Owner/Operator Ind: Current Owner	Street No:
Type: District	Street 1: NOT REQUIRED
Name: LONG BEACH UNIFIED SCHOOL DISTRICT	Street 2:
Date Became Current:	City: NOT REQUIRED
Date Ended Current:	State: ME
Phone: 415-555-1212	Country:
Source Type: Notification	Zip Code: 99999

Owner/Operator Ind: Current Owner	Street No:
Type: District	Street 1: 2425 WEBSTER AVE.
Name: LONG BEACH USD	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-997-8000	Country: US
Source Type: Notification	Zip Code: 90810

Historical Handler Details

Receive Dt: 19860616
Generator Code Description: Large Quantity Generator
Handler Name: LONG BEACH USD-HILL JUNIOR HIGH

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
LONG BEACH CA 90815000						
Epa ID:	CAD981419849				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAD981419849					

78	1 of 1	SSW	0.05 / 263.88	10.36 / -4	HOLLY DAVIS 787 SALIDA AVE LONG BEACH CA 908155017	HAZNET
SIC Code:					Mailing City: LONG BEACH	
NAICS Code:					Mailing State: CA	
EPA ID:	CAC002729651				Mailing Zip: 908155017	
Create Date:	5/10/2013				Region Code: 3	
Fac Act Ind:	No				Owner Name: HOLLY DAVIS	
Inact Date:	8/9/2013				Owner Addr 1: 787 SALIDA AVE	
County Code:	19				Owner Addr 2:	
County Name:	Los Angeles				Owner City: LONG BEACH	
Mail Name:					Owner State: CA	
Mailing Addr 1:	787 SALIDA AVE				Owner Zip: 908155017	
Mailing Addr 2:					Owner Phone: 5624308712	
Owner Fax:						
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC002729651					

79	1 of 1	W	0.20 / 1,053.09	10.76 / -4	LOS ALTOS PUMP PLANT 6560 ANAHEIM RD. LONG BEACH CA	HIST TANK
Owner Name:	LOS ANGELES COUNTY FLOOD CONTR				No of Containers: 1	
Owner Street:	2250 ALCAZAR ST.				County: LOS ANGELES	
Owner City:	LOS ANGELES				Facility State: CA	
Owner State:	CA				Facility Zip: 90815	
Owner Zip:	90033					

80	1 of 1	NNE	0.15 / 798.21	14.05 / 0	JANET OTTO 6981 E EL ROBLE ST LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002673517				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002673517					

81	1 of 1	W	0.19 / 1,026.75	10.41 / -4	KRISTEN NEWMAN 6471 E EL JARDIN STREET	HAZ GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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LONG BEACH CA 90815

Epa ID: CAC002885877 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002885877>

82	1 of 1	SW	0.10 / 530.18	13.38 / -1	Long Beach Water Dept 6491 Bixby Hill Rd Long Beach CA 90815	CHMIRS
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Control No: 11-1172 **Notified Date:**
County: Los Angeles County **Notified Date Time:**
Year: 2011
URL: <https://w3.calema.ca.gov/operational/mal haz.nsf/f1841a103c102734882563e200760c4a/ab56082de14752de882578420075020d?OpenDocument>

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained: Yes	3 Ves >= 300 Tons: No
1 Substance: Sewage	Incident Date: 2/25/2011
1 Measure: Gal(s)	Incident Time: 1030
1 Other:	Spill Site: Residence
1 Quantity: 250	Injuries?: No
1 Type: SEWAGE	No of Injuries:
1 Pipeline:	Fatals?: No
1 Vessel >= 300 Tons: No	No of Fatals:
2 Substance:	Evacs?: No
2 Quantity:	No of Evacs:
2 Measure:	Cleanup: Contractor
2 Type:	Site:
2 Other:	Cause: Blockage
2 Pipeline:	Cause Other:
2 Vessel >= 300 Tons: No	Dog No:
3 Substance:	Water: No
3 Quantity:	Water Way:
3 Measure:	City: Long Beach
3 Type:	County: Los Angeles County
3 Other:	ZIP: 90815
3 Pipeline:	
Admin Agency: Long Beach Fire Department	
Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS	
Location: 6491 Bixby Hill Rd	
Description: A main line overflowed due to a grease blockage.	

Spill Report View

Amount 1: **Creation Date:** 02/25/2011 01:18 PM
Amount 2: **Received By:**
Amount 3: **Admin Agency:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Water:				Admin Agency 2:		
On Scene:				Additional County:		
Other on Scene:				Phone No:		
Other Notified:				Ext:		
Document Title:		SPILL Report		Pag Cell:		
Spill Site:		Residence				
Type:		SEWAGE				
Cause Desc for Other:						
Person Notifying Cal OES:						

Hazardous Materials Spill Report

Date :	02/25/2011	Water Involved:	No
Time:	1318	Drink Wtr Impact:	
Incident Date:	02/25/2011	Detail for Other:	
Incident Time:	1030	UPRR Rim No:	
Control Cal OES:	11-1172	DOG Unit:	
Control NRC:		RWQCB Unit:	4
Contained:	Yes		
Waterway:			
Received By:			
Cleanup By:	Contractor		
Incident Location:	6491 Bixby Hill Rd		
Additional County:			
1 Substance:	Sewage		
1 Qty:	=		
1 Amount :	250		
1 Measure:	Gal(s)		
1 Type:	SEWAGE		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	No		
Fatality:	No		
Evacuation:	No		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Known Impact:

Name:

Agency: Long Beach Water Dept

Phone:

Ext:

Pag Cell:

PRS Name:

PRS Agency:

PRS Phone:

PRS Ext:

PRS Pag Cell:

Sec Agency: LACoFD Health Haz-Mat

Admin Agency: Long Beach Fire Department

Admin Agency 2:

Notification Info:

Notification List:

On Scene:

Other on Scene:

Other Notified: County Health, Fire

Header Unknown: SOUTH COAST AQMD

Incident Desc:

Site: Residence

Reported Cause: Blockage

R R Crssing < 50 Ft:

Description: A main line overflowed due to a grease blockage.

[83](#)

1 of 2

SE

0.14 /
720.63

8.98 /
-5

ROBERT ARBOIT
133 HARVARD LANE
SEAL BEACH CA 90740

RCRA
NON GEN

EPA Handler ID: CAC002977190

Gen Status Universe: No Report

Contact Name: ROBERT NIESNER

Contact Address: 133 HARVARD LANE , , SEAL BEACH , CA, 90740 ,

Contact Phone No and Ext: 723-947-7022

Contact Email: DAISY@SUPERIORENV.COM

Contact Country:

County Name: ORANGE

EPA Region: 09

Land Type:

Receive Date: 20180823

Location Latitude: 33.776701

Location Longitude: -118.095107

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Importer Activity:		No				
Mixed Waste Generator:		No				
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180823
Handler Name: ROBERT ARBOIT
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Other	Street 1:	133 HARVARD LANE
Name: ROBERT FAMILY TRUST	Street 2:	
Date Became Current:	City:	SEAL BEACH
Date Ended Current:	State:	CA
Phone: 723-947-7022	Country:	
Source Type: Implementer	Zip Code:	90740

Owner/Operator Ind: Current Operator	Street No:	
Type: Other	Street 1:	133 HARVARD LANE
Name: ROBERT NIESNER	Street 2:	
Date Became Current:	City:	SEAL BEACH
Date Ended Current:	State:	CA
Phone: 723-947-7022	Country:	
Source Type: Implementer	Zip Code:	90740

83	2 of 2	SE	0.14 / 720.63	8.98 / -5	ROBERT ARBOIT 133 HARVARD LANE SEAL BEACH CA 90740	FINDS/FRS
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Registry ID: 110070465779
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Location Description:						
Supplemental Location:						
Create Date:		02-JAN-19				
Update Date:						
Interest Types:		OTHER HAZARDOUS WASTE ACTIVITIES				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		ORANGE				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070465779				
Program Acronyms:						
RCRAINFO:CAC002977190						

84	1 of 1	SE	0.20 / 1,047.47	8.32 / -6	MESSENGER, MARK 141 STANFORD LN SEAL BEACH CA 907402533	HAZ GEN
Epa ID:	CAC002779007			Facility County:	30	
Address 2:				County:	Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002779007					

85	1 of 2	S	0.04 / 216.84	10.69 / -4	CHERI SWATEK 6921 E SEPTIMO ST LONG BEACH CA 90815-5021	RCRA NON GEN
EPA Handler ID:	CAC003062443					
Gen Status Universe:	No Report					
Contact Name:	CHERI SWATEK					
Contact Address:	6921 E SEPTIMO ST , , LONG BEACH , CA, 90815-5021 ,					
Contact Phone No and Ext:	562-884-0885					
Contact Email:	SWATEK_CHERRY@GMAIL.COM					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Country:

County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200404
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200404
Handler Name: CHERI SWATEK
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6921 E SEPTIMO ST
Name: CHERI SWATEK	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-884-0885	Country:
Source Type: Implementer	Zip Code: 90815-5021

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Other				Street 1:	6921 E SEPTIMO ST
Name:	CHERI SWATEK				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-884-0885				Country:	
Source Type:	Implementer				Zip Code:	90815-5021

[85](#) 2 of 2 S 0.04 / 216.84 10.69 / -4 **CHERI SWATEK
6921 E SEPTIMO ST
LONG BEACH CA 90815-5021** [FINDS/FRS](#)

Registry ID: 110070803562
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-JUN-20
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070803562
Program Acronyms:
RCRAINFO:CAC003062443

[86](#) 1 of 1 S 0.04 / 207.58 10.98 / -3 **MELVIN KANTZ
6911 EAST SEPTIMO STREET
LONG BEACH CA 90815** [HAZ GEN](#)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Epa ID:	CAC002895970				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002895970					

[87](#) 1 of 1 S 0.04 / 189.66 10.62 / -4 **KEN GENTILE** 6890 E. SEPTIMO ST. LONG BEACH CA 90815 **HAZ GEN**

Epa ID:	CAC002891106				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002891106					

[88](#) 1 of 1 S 0.04 / 187.85 10.80 / -3 **MANUEL LOPEZ** 6860 E SEPTIMO ST LONG BEACH CA 908155018 **HAZ GEN**

Epa ID:	CAC002775509				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002775509					

[89](#) 1 of 2 WSW 0.18 / 934.50 10.90 / -3 **LA COUNTY PUBLIC WORKS - ALAMITOS YARD** 881 IROQUOIS ST. LONG BEACH CA 90815 **LUST**

Global ID:	T0603727690	County:	LOS ANGELES
Status:	COMPLETED - CASE CLOSED	Latitude:	33.778636
Status Date:	8/23/2006	Longitude:	-118.105954
Case Type:	LUST CLEANUP SITE		

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No:	908150298	Potential COC:	Other Solvent or Non-Petroleum Hydrocarbon, Diesel
Local Case No:		How Discovered:	Other Means
Begin Date:	9/4/2003	Stop Method:	Other Means
Lead Agency:	LOS ANGELES RWQCB (REGION 4)	Stop Description:	UST & DISPENSER & PIPING REMOVAL
Local Agency:		Case Worker:	HDN
CUF Case:	NO	Military DoD Site:	No
CalEnvScreen Score:		Leak Reported Dt:	2004-03-22 00:00:00
EPA Region:	9	No Further Action Dt:	2006-08-23 00:00:00
Qty Risd Gallons:			
Calenviroscreen 4 Score:	10-15%		
Facility Project Sub Type:			
Calenviroscreen 3 Score:	46-50%		
Potential Media of Concern:	Aquifer used for drinking water supply		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
How Discovered Description:		TANK REMOVAL				
Calwater Watershed Name:		San Gabriel River - Lower San Gabriel - Central (Split) (405.15)				
DWR GW Subbasin Name:		Coastal Plain Of Los Angeles - Central (4-011.04)				
Disadvantaged Community:						
Coordinate Source:		Google Geocode				
Discharge Cause:		Unknown				
Discharge Source:		Other				
File Location:		Regional Board				
Site History:						

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type:	ENFORCEMENT
Date :	4/15/2004
Action:	Staff Letter
Action Type:	Other
Date :	9/4/2003
Action:	Leak Stopped
Action Type:	Other
Date :	9/4/2003
Action:	Leak Discovery
Action Type:	ENFORCEMENT
Date :	6/15/2009
Action:	Staff Letter
Action Type:	Other
Date :	3/22/2004
Action:	Leak Reported

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type:	Regional Board Caseworker	Address:	320 W. 4th Street, Suite 200
Contact Name:	HA D. NGUYEN	Email:	hnguyen@waterboards.ca.gov
City:	LOS ANGELES	Phone No:	2135766658
Organization Name:	LOS ANGELES RWQCB (REGION 4)		
Contact Type:	Local Agency Caseworker	Address:	
Contact Name:	MR. JEFF BENEDICT	Email:	
City:	LONG BEACH	Phone No:	5625704128
Organization Name:	LONG BEACH		

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status:	Open - Site Assessment
Status Date:	9/4/2003

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		Completed - Case Closed				
Status Date:		8/23/2006				
Status:		Open - Case Begin Date				
Status Date:		9/4/2003				

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name:	LA COUNTY PUBLIC WORKS - ALAMITOS YARD	Potential COC:	DIESEL, OTHER SOLVENT OR NON-PETROLEUM HYDROCARBON
Site Facility Type:	LUST CLEANUP SITE	Facility Type:	
Cleanup Status:	COMPLETED - CASE CLOSED	Composting Method:	
Project Status:		Address:	881 IROQUOIS ST.
WDR Place Type:		City:	LONG BEACH
WDR File:		Zip:	90815
WDR Order:		County:	LOS ANGELES
CUF Priority Assig:		CUF Claim:	
CUF Amount Paid:			
File Location:	REGIONAL BOARD		
Designated Beneficial Use:	MUN, AGR, IND, PROC		
Project Oversight Agencies:			
Report Link:	https://geotracker.waterboards.ca.gov/profile_report?global_id=T0603727690		
Cleanup Status Detail:	COMPLETED - CASE CLOSED AS OF 8/23/2006		
Cleanup History Link:	https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0603727690&tabname=regulatoryhistory		
Potential Media of Concern:	AQUIFER USED FOR DRINKING WATER SUPPLY		
User Defined Beneficial Use:			
DWR GW Sub Basin:	Coastal Plain Of Los Angeles - Central (4-011.04)		
Calwater Watershed Name:	San Gabriel River - Lower San Gabriel - Central (Split) (405.15)		
Post Closure Site Management:			
Future Land Use:			
Cleanup Oversight Agencies:	LOS ANGELES RWQCB (REGION 4) (LEAD) - CASE #: 908150298 CASEWORKER: HA D. NGUYEN LONG BEACH, CITY OF		
Gndwater Monitoring Freque:			
Designated Beneficial Use Desc:	Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply		
Site History:			

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status:	Open - Site Assessment
Date :	9/4/2003
Status:	Completed - Case Closed
Date :	8/23/2006
Status:	Open - Case Begin Date
Date :	9/4/2003

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sites from GeoTracker Search - Regulatory Activities (as of May 27, 2022)

Action Type: Other Regulatory Actions
Action Date: 6/15/2009
Received Issue Date: 6/15/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0603727690&enforcement_id=6020811&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 4/15/2004
Received Issue Date: 4/15/2004
Action: Staff Letter
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 3/22/2004
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/4/2003
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/4/2003
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Sites from GeoTracker Search - Documents (as of May 27, 2022)

Document Type: Site Documents
Document Date: 6/15/2009
Type: STAFF LETTER
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0603727690&enforcement_id=6020811
Size :
Submitted By: (REGULATOR)
Submitted:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
			934.50	-3	ALAMITOS YARD 881 IROQUOIS ST. LONG BEACH CA 90815	
Registry ID: 110066812729						
FIPS Code:						
HUC Code: 18070106						
Site Type Name: STATIONARY						
Location Description:						
Supplemental Location:						
Create Date: 14-OCT-15						
Update Date:						
Interest Types: STATE MASTER						
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor: FRS-GEOCODE						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No: 46						
Census Block Code: 060375746021001						
EPA Region Code: 09						
County Name: LOS ANGELES						
US/Mexico Border Ind:						
Latitude: 33.779415						
Longitude: -118.106194						
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION						
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER						
Accuracy Value: 50						
Datum: NAD83						
Source:						
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110066812729						
Program Acronyms:						
CA-ENVIROVIEW:219603						

90	1 of 1	WNW	0.20 / 1,066.87	11.16 / -3	HAROLD SEIFER 6471 E MANTOVA ST LONG BEACH CA 90815	HAZ GEN
Epa ID: CAC002694721						
Address 2:						
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search						
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002694721						

91	1 of 2	NW	0.17 / 900.00	11.96 / -2	1X WACHI, FRANCIS 6530 ESPANITA ST LONG BEACH CA 908154635	HAZNET
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC000816848	Mailing Zip:	908150000
Create Date:	8/3/1992	Region Code:	3
Fac Act Ind:	No	Owner Name:	F WACHI
Inact Date:	10/25/2000	Owner Addr 1:	--
County Code:	19	Owner Addr 2:	--
County Name:	Los Angeles	Owner City:	--
Mail Name:		Owner State:	99
Mailing Addr 1:	--	Owner Zip:	--
Mailing Addr 2:		Owner Phone:	0000000000

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC000816848>

91	2 of 2	NW	0.17 / 900.00	11.96 / -2	6530 ESPANITA ST LONG BEACH CA 908154635	HIST MANIFEST
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Gen EPA ID: CAC000816848
Create Date: 08/03/1992 0:00
Inact Date: 10/25/2000 0:00:00
Facility Mail Street: --
Facility Mail City: LONG BEACH
Facility Mail State: CA
Facility Mail Zip: 908150000
Contact Phone(s): 3105969211
File Year(s): 1992
Contact Name(s): FRANCIS WACHI OWNER

Tanner Information

Method Description:

Tons: 0
Year: 1992
Generator County Code: 19
Generator County: Los Angeles
Method Code: 3
Tsd County Code: 99
Tsd County: Unknown
State Waste Code: 151
State Waste Code Desc: Asbestos containing waste
Tsd Epa ID: IRC957100891

Tanner Information

Method Description:

Tons: 0
Year: 1992

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Generator County Code:		19				
Generator County:		Los Angeles				
Method Code:						
Tsd County Code:		99				
Tsd County:		Unknown				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		IRC957100891				

92	1 of 1	WSW	0.13 / 712.64	14.99 / 1	JAMIL & SIHAM BUDEIRI 871 N RANCHO DR LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002705417	Facility County:	19	County:	Los Angeles	
Address 2:		County:	Los Angeles			
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002705417					

93	1 of 1	WNW	0.19 / 1,014.89	11.29 / -3	ANITA PATTEN 1411 JOSIE AVENUE LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002928524	Facility County:		County:		
Address 2:		County:				
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002928524					

94	1 of 6	WSW	0.17 / 898.10	11.38 / -3	ALAMITOS YARD 881 IROQUOIS AVENUE LONG BEACH CA 90815	HHSS
County:	Los Angeles					
Tank Details Microfiche:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000276bc.pdf					

94	2 of 6	WSW	0.17 / 898.10	11.38 / -3	ALAMITOS YARD 881 IROQUOIS AVENUE LONG BEACH CA	HIST TANK
Owner Name:	LOS ANGELES COUNTY FLOOD CONTR	No of Containers:	1	County:	LOS ANGELES	
Owner Street:	2250 ALCAZAR STREET	Facility State:	CA	Facility Zip:	90815	
Owner City:	LOS ANGELES					
Owner State:	CA					
Owner Zip:	90031					

94	3 of 6	WSW	0.17 / 898.10	11.38 / -3	LACDPW ALAMITOS YARD 881 IROQUOIS AVE LONG BEACH CA 90815-0000	RCRA NON GEN
EPA Handler ID:	CAL000200686					
Gen Status Universe:	No Report					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Name: ADRIANA FLORES
Contact Address: 900 SOUTH FREMONT AVE. , , ALHAMBRA , CA, 91803-1331 ,
Contact Phone No and Ext: 626-458-7390
Contact Email: AFLORES@DPW.LACOUNTY.GOV
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 19990520
Location Latitude: 33.779283
Location Longitude: -118.106223

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19990520
Handler Name: LACDPW ALAMITOS YARD
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	900 SOUTH FREMONT AVE.
Name:	ADRIANA FLORES	Street 2:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:				City:	ALHAMBRA	
Date Ended Current:				State:	CA	
Phone:	626-458-7390			Country:		
Source Type:	Implementer			Zip Code:	91803-1331	
Owner/Operator Ind:				Street No:		
Type:	Other			Street 1:	900 S FREMONT AVE	
Name:	LA COUNTY PUBLIC WORKS			Street 2:		
Date Became Current:				City:	ALHAMBRA	
Date Ended Current:				State:	CA	
Phone:	626-458-7390			Country:		
Source Type:	Implementer			Zip Code:	91803-1331	

[94](#) 4 of 6 **WSW** 0.17 / 898.10 11.38 / -3 **LACDPW ALAMITOS YARD
881 IROQUOIS AVE
LONG BEACH CA 90815-0000** [FINDS/FRS](#)

Registry ID: 110070447728
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 02-JAN-19
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES, TRANSPORTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070447728
Program Acronyms:

RCRAINFO:CAL000200686

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
94	5 of 6	WSW	0.17 / 898.10	11.38 / -3	ALAMITOS YARD 881 IROQUOIS AVE LONG BEACH CA	UST SWEEPS

C C:	A19-060-34055	D Filename:	SITE01A
BOE:		Page No:	33
Comp:	34055	County:	LOS ANGELES
Status:	ACTIVE	State :	CA
No of Tanks:	1	Zip:	90815
Jurisdic:	CITY OF LONG BEACH	Latitude:	33.779486
Agency:	FIRE DEPARTMENT	Longitude:	-118.106051
Phone:		Georesult:	S5HPNTSCZA

Tank Details

Tank ID:	000001	S Contain:	
O Tank ID:	1	Stg:	P
SWRCB No:	19-060-034055-000001	Storage :	
Removed:		Storag Type:	PRODUCT
Installed:		P Contain:	
A Date:	07-01-85	Content:	LEADED
Capac:	1000	ONA:	
Tank Use:	M.V. FUEL	D File Name:	TANK1A

94	6 of 6	WSW	0.17 / 898.10	11.38 / -3	LACDPW ALAMITOS YARD 881 IROQUOIS AVE LONG BEACH CA 908150000	HAZ GEN
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Epa ID:	CAL000200686	Facility County:	19
Address 2:		County:	Los Angeles
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search		
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAL000200686		

95	1 of 1	N	0.06 / 291.34	12.22 / -2	KRISTIN & JUSTIN PYUN 1632 PETALUMA AVE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC003193169
Gen Status Universe:	No Report
Contact Name:	KRISTIN & JUSTIN PYUN
Contact Address:	1632 PETALUMA AVE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	808-285-5699
Contact Email:	KRISTINE.RAMOS@PEAS1.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20220902
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220902
Handler Name: KRISTIN & JUSTIN PYUN
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 1632 PETALUMA AVE
Name: KRISTIN & JUSTIN PYUN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 808-285-5699	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 1632 PETALUMA AVE
Name: KRISTIN & JUSTIN PYUN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 808-285-5699	Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:	Implementer			Zip Code:	90815	

[96](#) 1 of 2 SSW 0.02 / 116.29 11.59 / -3 DAVID SAZEGAR 6810 SEPTIMO AVE LONG BEACH CA 90815 RCRA NON GEN

EPA Handler ID: CAC002981934
 Gen Status Universe: No Report
 Contact Name: DAVID SAZEGAR
 Contact Address: 6810 SEPTIMO AVE , , LONG BEACH , CA, 90815 ,
 Contact Phone No and Ext: 562-366-6057
 Contact Email: JOE@SIRRIS.BIZ
 Contact Country:
 County Name: LOS ANGELES
 EPA Region: 09
 Land Type:
 Receive Date: 20180925
 Location Latitude: 33.775146
 Location Longitude: -118.100858

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20180925
 Handler Name: DAVID SAZEGAR
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6810 SEPTIMO AVE
Name:	DAVID SAZEGAR	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-366-6057	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6810 SEPTIMO AVE
Name:	DAVID SAZEGAR	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-366-6057	Country:	
Source Type:	Implementer	Zip Code:	90815

96	2 of 2	SSW	0.02 / 116.29	11.59 / -3	DAVID SAZEGAR 6810 SEPTIMO AVE LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070437656
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 31-DEC-18
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070437656				
Program Acronyms:		RCRAINFO: CAC002981934				

97	1 of 1	SE	0.16 / 857.16	8.06 / -6	MATTHEW ROPPO 125 STANFORD LN SEAL BEACH CA 907402533	HAZ GEN
Epa ID:		CAC002809358		Facility County:		30
Address 2:				County:		Orange
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002809358				

98	1 of 1	WSW	0.19 / 994.31	12.11 / -2	881 N IROQUOIS ST LONG BEACH CA 90815	HMS LA
Site No:		010772				
Area:		1C				

Detail Info

Permit No:				Permit Status Code:		
Permit Cat Desc:				Permit Category:		
Status Code:		OPEN		File No:		010732
Status Desc:		File Opened, no permit exists		File Name:		LA CO PW SWMD ALAMITOS BARRIER
Permit Status Desc:						
Permit Type:						
Permit Type Desc:						

Detail Info

Permit No:				Permit Status Code:		
Permit Cat Desc:				Permit Category:		
Status Code:		OPEN		File No:		069042
Status Desc:		File Opened, no permit exists		File Name:		LA CO PW SWMD ALAMITOS BARRIER
Permit Status Desc:						
Permit Type:						
Permit Type Desc:						

99	1 of 1	N	0.06 / 306.85	14.06 / 0	DEBBIE TANKERSLEY 6916 E EL ROBLE ST LONG BEACH CA 908154815	HAZNET
SIC Code:				Mailing City:		LONG BEACH
NAICS Code:				Mailing State:		CA
EPA ID:		CAC002713589		Mailing Zip:		908154815

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Create Date:	12/6/2012				Region Code:	3
Fac Act Ind:	No				Owner Name:	DEBBIE TANKERSLEY
Inact Date:	3/7/2013				Owner Addr 1:	6916 E EL ROBLE ST
County Code:	19				Owner Addr 2:	
County Name:	Los Angeles				Owner City:	LONG BEACH
Mail Name:					Owner State:	CA
Mailing Addr 1:	6916 E EL ROBLE ST				Owner Zip:	908154815
Mailing Addr 2:					Owner Phone:	5628963758
Owner Fax:						
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC002713589					

100	1 of 1	WNW	0.22 / 1,186.46	11.48 / -3	SHELDON GEBB 6450 EAST MANTOVA STREET LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC003160220
Gen Status Universe:	No Report
Contact Name:	SHELDON GEBB
Contact Address:	6450 EAST MANTOVA STREET , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	562-884-0033
Contact Email:	KARLA@SUPERIORENV.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20220204
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20220204
 Handler Name: SHELDON GEBB
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6450 EAST MANTOVA STREET
Name:	SHELDON GEBB	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-884-0033	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6450 EAST MANTOVA STREET
Name:	SHELDON GEBB	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-884-0033	Country:	
Source Type:	Implementer	Zip Code:	90815

101	1 of 2	SE	0.15 / 792.56	7.15 / -7	KUBIEK, PAUL 121 STANFORD LANE SEAL BEACH CA 90740	RCRA NON GEN
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EPA Handler ID: CAC002982019
 Gen Status Universe: No Report
 Contact Name: KUBIEK, PAUL
 Contact Address: 121 STANFORD LANE , , SEAL BEACH , CA, 90740 ,
 Contact Phone No and Ext: 213-503-9988
 Contact Email: ANDREW@PWSEI.COM
 Contact Country:
 County Name: ORANGE
 EPA Region: 09
 Land Type:
 Receive Date: 20180925
 Location Latitude: 33.776647
 Location Longitude: -118.094258

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180925
Handler Name: KUBIEK, PAUL
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 121 STANFORD LANE
Name: KUBIEK, PAUL	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 213-503-9988	Country:
Source Type: Implementer	Zip Code: 90740

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 121 STANFORD LANE
Name: KUBIEK, PAUL	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 213-503-9988	Country:
Source Type: Implementer	Zip Code: 90740

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
101	2 of 2	SE	0.15 / 792.56	7.15 / -7	KUBIEK, PAUL 121 STANFORD LANE SEAL BEACH CA 90740	FINDS/FRS

Registry ID: 110070438262
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 31-DEC-18
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070438262
Program Acronyms:
 RCRAINFO:CAC002982019

102	1 of 1	SE	0.10 / 541.47	8.45 / -6	BLEEKER GRAHAM 113 HARVARD LN SEAL BEACH CA 907402508	HAZ GEN
Epa ID:	CAC002770358	Facility County:	30			
Address 2:		County:	Orange			
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002770358					

103	1 of 1	NNE	0.22 / 1,147.28	13.12 / -1	TORRES, ANGELICA 7032 E. EL CEDRAL ST. LONG BEACH CA 90815	HAZNET
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SIC Code:		Mailing City:	LONG BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC002752632	Mailing Zip:	90815
Create Date:	11/26/2013	Region Code:	3
Fac Act Ind:	No	Owner Name:	TORRES, ANGELICA
Inact Date:	2/25/2014	Owner Addr 1:	7032 E. EL CEDRAL ST.
County Code:	19	Owner Addr 2:	
County Name:	Los Angeles	Owner City:	LONG BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	7032 E. EL CEDRAL ST.	Owner Zip:	90815
Mailing Addr 2:		Owner Phone:	5627168033
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002752632>

104	1 of 2	NNE	0.18 / 952.64	12.92 / -1	FRANCIS BETTIS 7011 E EL CEDRAL STREET LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003106031
Gen Status Universe: No Report
Contact Name: FRANCIS BETTIS
Contact Address: 7011 E EL CEDRAL STREET , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-787-5156
Contact Email: KRISTINE.RAMOS3@GMAIL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20210217
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20210217
 Handler Name: FRANCIS BETTIS
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	7011 E EL CEDRAL STREET
Name:	FRANCIS BETTIS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-787-5156	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	7011 E EL CEDRAL STREET
Name:	FRANCIS BETTIS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-787-5156	Country:	
Source Type:	Implementer	Zip Code:	90815

104	2 of 2	NNE	0.18 / 952.64	12.92 / -1	FRANCIS BETTIS 7011 E EL CEDRAL ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003139802
 Gen Status Universe: No Report
 Contact Name: FRANCIS BETTIS
 Contact Address: 7011 E EL CEDRAL ST , , LONG BEACH , CA, 90815 ,
 Contact Phone No and Ext: 562-787-5156
 Contact Email: KRISTINE@PEASOLUTIONS.COM
 Contact Country:
 County Name: LOS ANGELES
 EPA Region: 09
 Land Type:
 Receive Date: 20210920
 Location Latitude:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210920
Handler Name: FRANCIS BETTIS
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 7011 E EL CEDRAL ST
Name: FRANCIS BETTIS	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-787-5156	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 7011 E EL CEDRAL ST
Name: FRANCIS BETTIS	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone:	562-787-5156				Country:	
Source Type:	Implementer				Zip Code:	90815

[105](#) 1 of 2 **NNW** 0.08 / 419.90 14.87 / 1 **EUGENE TINCHER SCHOOL SITE
1701 PETALUMA AVENUE
LONG BEACH CA 90815** **SCH**

Estor/EPA ID:	19820023	Permit Renewal Lead:	
Site Code:	404029	Project Manager:	
Nat Priority List:	NO	Supervisor:	MARK MALINOWSKI
Acres:	NONE SPECIFIED	Public Partici Spclst:	
Special Program:		Census Tract:	6037574500
Funding:	SCHOOL DISTRICT	County:	LOS ANGELES
Assembly District:	70	Latitude:	33.787579
Senate District:	34	Longitude:	-118.1009082
School District:			
APN:	NONE SPECIFIED		
Cleanup Status:	NO ACTION REQUIRED AS OF 2/11/2000		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
Site Type:	SCHOOL		
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH		
Past Use that Caused Contam:	NONE		
Potential Media Affected:	NO MEDIA AFFECTED		
Potential Contamin of Concern:			

NO CONTAMINANTS FOUND

SITE HISTORY:

This project Site consists of an existing school, which was undeveloped until approximately 1964.

Status:	NO ACTION REQUIRED
Program Type:	SCHOOL EVALUATION
CalEnviroScreen Score:	15-20%
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19820023

[105](#) 2 of 2 **NNW** 0.08 / 419.90 14.87 / 1 **EUGENE TINCHER SCHOOL SITE
1701 PETALUMA AVENUE
LONG BEACH CA 90815** **ENVIROSTOR**

Estor/EPA ID:	19820023	Assembly District:	70
Site Code:	404029	Senate District:	34
Nat Priority List:	NO	Permit Renewal Lead:	
APN:	NONE SPECIFIED	Public Partici Spclst:	
Census Tract:	6037574500	Project Manager:	
Site Type:	SCHOOL	County:	LOS ANGELES
Address Description:	1701 PETALUMA AVENUE	Latitude:	33.787579
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH	Longitude:	-118.1009082
Special Program:		Acres:	NONE SPECIFIED
Funding:	SCHOOL DISTRICT	Supervisor:	MARK MALINOWSKI
Cleanup Status:	NO ACTION REQUIRED AS OF 2/11/2000		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
School District:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Past Use that Caused Contam:		NONE				
Potential Media Affected:		NO MEDIA AFFECTED				
Potential Contaminant of Concern:		NO CONTAMINANTS FOUND				

Site History:

This project Site consists of an existing school, which was undeveloped until approximately 1964.

Status:	NO ACTION REQUIRED
Program Type:	SCHOOL EVALUATION
CalEnviroScreen Score:	15-20%
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19820023

106	1 of 2	SE	0.10 / 526.86	8.57 / -6	STEVE JONES 108 HARVARD LN SEAL BEACH CA 90740-2509	RCRA NON GEN
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EPA Handler ID:	CAC003057488
Gen Status Universe:	No Report
Contact Name:	STEVE JONES
Contact Address:	108 HARVARD LN , , SEAL BEACH , CA, 90740-2509 ,
Contact Phone No and Ext:	714-336-1561
Contact Email:	MANIFEST.SIRRIS@GMAIL.COM
Contact Country:	
County Name:	ORANGE
EPA Region:	09
Land Type:	
Receive Date:	20200225
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20200225
 Handler Name: STEVE JONES
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	108 HARVARD LN
Name:	STEVE JONES	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	714-336-1561	Country:	
Source Type:	Implementer	Zip Code:	90740-2509

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	108 HARVARD LN
Name:	STEVE JONES	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	714-336-1561	Country:	
Source Type:	Implementer	Zip Code:	90740-2509

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2 of 2

SE

0.10 /
526.86

8.57 /
-6

STEVE JONES
108 HARVARD LN
SEAL BEACH CA 90740-2509

[FINDS/FRS](#)

Registry ID: 110070804861
 FIPS Code: 06059
 HUC Code:
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 10-JUN-20
 Update Date:
 Interest Types: UNSPECIFIED UNIVERSE
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor:
 Federal Facility Code:
 Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		ORANGE				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070804861				
Program Acronyms:						
RCRAINFO:CAC003057488						

107	1 of 2	SE	0.20 / 1,047.36	8.46 / -6	FEDERICO & NANCY JIMENEZ 117 YALE LANE SEAL BEACH CA 90740	RCRA NON GEN
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EPA Handler ID: CAC003051585
Gen Status Universe: No Report
Contact Name: FEDERICO & NANCY JIMENEZ
Contact Address: 117 YALE LANE , , SEAL BEACH , CA, 90740 ,
Contact Phone No and Ext: 310-930-0533
Contact Email: NANCYRUIZ@ALLIANCE-ENVIRO.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:
Receive Date: 20200117
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Underground Injection Activity:	No					
Commercial TSD:	No					
Used Oil Transporter:	No					
Used Oil Transfer Facility:	No					
Used Oil Processor:	No					
Used Oil Refiner:	No					
Used Oil Burner:	No					
Used Oil Market Burner:	No					
Used Oil Spec Marketer:	No					

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200117
Handler Name: FEDERICO & NANCY JIMENEZ
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:	
Type: Other	Street 1:	117 YALE LANE
Name: FEDERICO & NANCY JIMENEZ	Street 2:	
Date Became Current:	City:	SEAL BEACH
Date Ended Current:	State:	CA
Phone: 310-930-0533	Country:	
Source Type: Implementer	Zip Code:	90740

Owner/Operator Ind: Current Owner	Street No:	
Type: Other	Street 1:	117 YALE LANE
Name: FEDERICO & NANCY JIMENEZ	Street 2:	
Date Became Current:	City:	SEAL BEACH
Date Ended Current:	State:	CA
Phone: 310-930-0533	Country:	
Source Type: Implementer	Zip Code:	90740

107	2 of 2	SE	0.20 / 1,047.36	8.46 / -6	FEDERICO & NANCY JIMENEZ 117 YALE LANE SEAL BEACH CA 90740	FINDS/FRS
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Registry ID: 110070718028
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 02-MAY-20
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code: 09						
County Name: ORANGE						
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum: NAD83						
Source:						
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070718028						
Program Acronyms:						
RCRAINFO:CAC003051585						

108	1 of 4	NNW	0.13 / 669.51	14.71 / 0	LONG BEACH USD-TINCHER ELEMENTARY 1701 PETALUMA AVENUE LONG BEACH CA 90815-4855	FINDS/FRS
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Registry ID: 110002700239
FIPS Code: 06037
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 13-DEC-10
Interest Types: LQG, STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46
Census Block Code: 060375745003001
EPA Region Code: 09

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:		33.787346				
Longitude:		-118.100568				
Reference Point:		ENTRANCE POINT OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		50				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110002700239				
Program Acronyms:						
HWTS-DATAMART:CAD981421191, RCRAINFO:CAD981421191						

108	2 of 4	NNW	0.13 / 669.51	14.71 / 0	LONG BEACH USD-TINCHER ELEMENTARY 1701 PETALUMA AVENUE LONG BEACH CA 90815	RCRA LQG
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EPA Handler ID: CAD981421191
Gen Status Universe: Large Quantity Generator
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 1701 PETALUMA AVENUE , , LONG BEACH , CA, 90815 , US
Contact Phone No and Ext: 213-426-5974
Contact Email:
Contact Country: US
County Name: LOS ANGELES
EPA Region: 09
Land Type: Other
Receive Date: 19860616
Location Latitude: 33.787159
Location Longitude: -118.100664

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19860616
 Handler Name: LONG BEACH USD-TINCHER ELEMENTARY
 Federal Waste Generator Code: 1
 Generator Code Description: Large Quantity Generator
 Source Type: Notification

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	District	Street 1:	NOT REQUIRED
Name:	LONG BEACH UNIFIED SCHOOL DISTRICT	Street 2:	
Date Became Current:		City:	NOT REQUIRED
Date Ended Current:		State:	ME
Phone:	415-555-1212	Country:	
Source Type:	Notification	Zip Code:	99999

[108](#) 3 of 4 **NNW** 0.13 / 669.51 14.71 / 0 **LBUSD-TINCHER ELEMENTARY
1701 PETALUMA AVE
LONG BEACH CA 908154855** **HAZ GEN**

Epa ID: CAD981421191 Facility County: 19
 Address 2: County: Los Angeles
 Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
 Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAD981421191>

[108](#) 4 of 4 **NNW** 0.13 / 669.51 14.71 / 0 **LONG BCH USD/TINCHER ELEM SCH
1701 PETALUMA AVE
LONG BEACH CA 908150000** **HAZ GEN**

Epa ID: CAC001352120 Facility County: 19
 Address 2: County: Los Angeles
 Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
 Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC001352120>

[109](#) 1 of 2 **SE** 0.16 / 858.47 10.42 / -4 **CHRISTY HOOVER
112 STANFORDLN
SEAL BEACH CA 90740** **RCRA
NON GEN**

EPA Handler ID: CAC002981167

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Gen Status Universe: No Report
Contact Name: CHRISTY HOOVER
Contact Address: 112 STANFORDLN , , SEAL BEACH , CA, 90740 ,
Contact Phone No and Ext: 678-772-0958
Contact Email: KC@AQHIINC.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:
Receive Date: 20180920
Location Latitude: 33.776368
Location Longitude: -118.093986

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180920
Handler Name: CHRISTY HOOVER
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Street No:
Street 1: 112 STANFORDLN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Name:	CHRISTY HOOVER				Street 2:	
Date Became Current:					City:	SEAL BEACH
Date Ended Current:					State:	CA
Phone:	678-772-0958				Country:	
Source Type:	Implementer				Zip Code:	90740
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	112 STANFORDLN
Name:	CHRISTY HOOVER				Street 2:	
Date Became Current:					City:	SEAL BEACH
Date Ended Current:					State:	CA
Phone:	678-772-0958				Country:	
Source Type:	Implementer				Zip Code:	90740

[109](#) 2 of 2 **SE** **0.16 / 858.47** **10.42 / -4** **CHRISTY HOOVER
112 STANFORDLN
SEAL BEACH CA 90740** [FINDS/FRS](#)

Registry ID: 110070438021
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 31-DEC-18
Update Date:
Interest Types: OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070438021
Program Acronyms:

RCRAINFO:CAC002981167

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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110	1 of 2	NNW	0.11 / 583.79	15.03 / 1	EUGENE TINCHER SCHOOL SITE 1701 PETALUMA AVENUE LONG BEACH CA 90815	SCH
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Estor/EPA ID:	19820122	Permit Renewal Lead:	
Site Code:	404029, 404091	Project Manager:	
Nat Priority List:	NO	Supervisor:	MARK MALINOWSKI
Acres:	NONE SPECIFIED	Public Partici Spclst:	
Special Program:		Census Tract:	6037574500
Funding:	SCHOOL DISTRICT	County:	LOS ANGELES
Assembly District:	70	Latitude:	33.7875863670913
Senate District:	34	Longitude:	-118.101462639127
School District:	LONG BEACH UNIFIED SCHOOL DISTRICT		
APN:	NONE SPECIFIED		
Cleanup Status:	NO ACTION REQUIRED AS OF 2/11/2000		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
Site Type:	SCHOOL		
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH		
Past Use that Caused Contam:	SCHOOL - ELEMENTARY		
Potential Media Affected:	NO MEDIA AFFECTED		
Potential Contamin of Concern:			

NO CONTAMINANTS FOUND

SITE HISTORY:

DTSC approved the Phase I with a no action determination.

Status:	NO ACTION REQUIRED
Program Type:	SCHOOL EVALUATION
CalEnviroScreen Score:	15-20%
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19820122

Completed Activities

Title:	Phase 1
Title Link:	https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=19820122&doc_id=6002264
Area Name:	
Area Link:	
Sub Area:	
Sub Area Link:	
Document Type:	Phase 1
Date Completed:	2/11/2000
Comments:	

Title:	* Site Visit - Site Inspections/visit
Title Link:	
Area Name:	
Area Link:	
Sub Area:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sub Area Link:

Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 2/4/2000
Comments:

110	2 of 2	NNW	0.11 / 583.79	15.03 / 1	EUGENE TINCHER SCHOOL SITE 1701 PETALUMA AVENUE LONG BEACH CA 90815	ENVIROSTOR
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Estor/EPA ID:	19820122	Assembly District:	70
Site Code:	404029, 404091	Senate District:	34
Nat Priority List:	NO	Permit Renewal Lead:	
APN:	NONE SPECIFIED	Public Partici Spclst:	
Census Tract:	6037574500	Project Manager:	
Site Type:	SCHOOL	County:	LOS ANGELES
Address Description:	1701 PETALUMA AVENUE	Latitude:	33.7875863670913
Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH	Longitude:	-118.101462639127
Special Program:		Acres:	NONE SPECIFIED
Funding:	SCHOOL DISTRICT	Supervisor:	MARK MALINOWSKI
Cleanup Status:	NO ACTION REQUIRED AS OF 2/11/2000		
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
School District:	LONG BEACH UNIFIED SCHOOL DISTRICT		
Past Use that Caused Contam:	SCHOOL - ELEMENTARY		
Potential Media Affected:	NO MEDIA AFFECTED		
Potential Contamin of Concern:			

NO CONTAMINANTS FOUND

Site History:

DTSC approved the Phase I with a no action determination.

Status:	NO ACTION REQUIRED
Program Type:	SCHOOL EVALUATION
CalEnviroScreen Score:	15-20%
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19820122

Completed Activities

Title: * Site Visit - Site Inspections/visit
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 2/4/2000
Comments:

Title: Phase 1
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=19820122&doc_id=6002264
Area Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Area Link:

Sub Area:

Sub Area Link:

Document Type: Phase 1

Date Completed: 2/11/2000

Comments:

111	1 of 1	SE	0.19 / 1,022.04	8.12 / -6	ROD JUNE 113 YALE LN SEAL BEACH CA 907402521	HAZ GEN
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Epa ID: CAC002813896

Facility County: 30

Address 2: County: Orange

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:

<https://hwts.dtsc.ca.gov/search>

Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002813896>

112	1 of 1	NW	0.22 / 1,173.11	12.21 / -2	Long Beach Fire Dept 1501 Josie Ave Long Beach CA	CHMIRS
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Control No: Notified Date: 3/23/200203:29:39 PM

County: Los Angeles County Notified Date Time:

Year: 2002

URL:

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Yes	Bbls:	0
Substance:	Unknown	Cups:	0
Incident Date:	3/23/200212:00:00 AM	Cu Ft:	0
No of Injuries:	0	Gals:	200
No of Fataals:	0	Grams:	0
No of Evacs:	0	Lbs:	0
Cleanup:	Unknown	Liters:	0
Water:	Yes	Oz:	0
Water Way:	Storm Drain/ Ocean	Pts:	0
City:	Long Beach	Qts:	0
County:	Los Angeles County	Sheen:	0
ZIP:		Tons:	0
Site:	Residence	Unknown:	0

Admin Agency: Long Beach Fire Department

Location: 1501 Josie Ave

Description: Substance was released due to unknown persons releasing substance from a jacuzzi .Note: Substance is believed to be a de-scaling substance found in jacuzzi's

113	1 of 1	NNE	0.12 / 610.94	13.44 / -1	DAN MCDONALD 6958 E. EL CEDRAL STREET LONG BEACH CA 90815	HAZ GEN
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Epa ID: CAC002929124 Facility County: 19

Address 2: County: Los Angeles

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002929124>

114	1 of 1	NNE	0.12 / 611.83	13.80 / 0	DAN MCDONALD 6958 EAST EL CEDRAL ST LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID: CAC003135744
Gen Status Universe: No Report
Contact Name: DAN MCDONALD
Contact Address: 6958 EAST EL CEDRAL ST , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext: 562-760-2963
Contact Email: EPA4HAZ@GMAIL.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20210824
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210824
Handler Name: DAN MCDONALD
Source Type: Implementer

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6958 EAST EL CEDRAL ST
Name:	DAN MCDONALD	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-760-2963	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	6958 EAST EL CEDRAL ST
Name:	DAN MCDONALD	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-760-2963	Country:	
Source Type:	Implementer	Zip Code:	90815

<u>115</u>	1 of 1	NW	0.22 / 1,147.29	10.30 / -4	FOSTER, MERLE 6510 E DRISCOLL ST LONG BEACH CA 908154630	HAZ GEN
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Epa ID: CAC002750498 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002750498>

<u>116</u>	1 of 1	SE	0.20 / 1,044.78	7.87 / -6	CARRIE MARINOW 108 YALE LN SEAL BEACH CA 90740	HAZ GEN
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Epa ID: CAC002934317 **Facility County:** 30
Address 2: **County:** Orange
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002934317>

<u>117</u>	1 of 2	WSW	0.19 / 987.76	30.62 / 16	MICHELLE THOMPSON 6441 E BIXBY HILL RD LONG BEACH CA 90815-4708	RCRA NON GEN
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EPA Handler ID: CAC003029277
Gen Status Universe: No Report
Contact Name: MICHELLE THOMPSON
Contact Address: 6441 E BIXBY HILL RD , , LONG BEACH , CA, 90815-4708 ,
Contact Phone No and Ext: 562-508-5794
Contact Email: KC@AQHIINC.COM
Contact Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
County Name:		LOS ANGELES				
EPA Region:		09				
Land Type:						
Receive Date:		20190814				
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190814
Handler Name: MICHELLE THOMPSON
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	6441 E BIXBY HILL RD
Name:	MICHELLE THOMPSON	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	562-508-5794	Country:	
Source Type:	Implementer	Zip Code:	90815-4708

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Other				Street 1:	6441 E BIXBY HILL RD
Name:	MICHELLE THOMPSON				Street 2:	
Date Became Current:					City:	LONG BEACH
Date Ended Current:					State:	CA
Phone:	562-508-5794				Country:	
Source Type:	Implementer				Zip Code:	90815-4708

[117](#) 2 of 2 WSW 0.19 / 987.76 30.62 / 16 MICHELLE THOMPSON 6441 E BIXBY HILL RD LONG BEACH CA 90815-4708 [FINDS/FRS](#)

Registry ID: 110070655220
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 26-NOV-19
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: LOS ANGELES
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070655220
Program Acronyms:
RCRAINFO:CAC003029277

[118](#) 1 of 1 WSW 0.20 / 1,057.87 34.73 / 20 BERNADINE KUSSMAN 6431 E BIXBY HILL RD. LONG BEACH CA 90815 [HAZNET](#)

SIC Code: **Mailing City:** LONG BEACH

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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NAICS Code:		Mailing State:	CA	
EPA ID:	CAC002794860	Mailing Zip:	90815	
Create Date:	11/24/2014	Region Code:	3	
Fac Act Ind:	No	Owner Name:	BERNADINE KUSSMAN	
Inact Date:	2/23/2015	Owner Addr 1:	6431 E BIXBY HILL RD.	
County Code:	19	Owner Addr 2:		
County Name:	Los Angeles	Owner City:	LONG BEACH	
Mail Name:		Owner State:	CA	
Mailing Addr 1:	6431 E BIXBY HILL RD.	Owner Zip:	90815	
Mailing Addr 2:		Owner Phone:	5624301122	
Owner Fax:				
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search			
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC002794860			

119	1 of 1	SE	0.08 / 424.54	8.61 / -6	VANWEY, STEVEN 116 COLLEGE PARK DR SEAL BEACH CA 907402502	HAZ GEN
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Epa ID:	CAC002774010	Facility County:	30
Address 2:		County:	Orange
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search		
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002774010		

120	1 of 2	NW	0.24 / 1,264.60	11.37 / -3	CHAVEZ, MARK 6291 E. DRISCOLL STREET LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC002976661
Gen Status Universe:	No Report
Contact Name:	CHAVEZ, MARK
Contact Address:	6291 E. DRISCOLL STREET , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	562-833-4440
Contact Email:	ANDREW@PWSEI.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20180820
Location Latitude:	33.785973
Location Longitude:	-118.105013

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Importer Activity:		No				
Mixed Waste Generator:		No				
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180820
Handler Name: CHAVEZ, MARK
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 6291 E. DRISCOLL STREET
Name: CHAVEZ, MARK	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-833-4440	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 6291 E. DRISCOLL STREET
Name: CHAVEZ, MARK	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 562-833-4440	Country:
Source Type: Implementer	Zip Code: 90815

120	2 of 2	NW	0.24 / 1,264.60	11.37 / -3	CHAVEZ, MARK 6291 E. DRISCOLL STREET LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110070465271
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Location Description:						
Supplemental Location:						
Create Date:		02-JAN-19				
Update Date:						
Interest Types:		OTHER HAZARDOUS WASTE ACTIVITIES				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070465271				
Program Acronyms:						
RCRAINFO:CAC002976661						

121	1 of 1	SE	0.18 / 951.16	7.24 / -7	THOMAS J KAMPWIRTH TR 149 COLLEGE PARK DR SEAL BEACH CA 90740	RCRA NON GEN
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EPA Handler ID: CAC003192748
Gen Status Universe: No Report
Contact Name: THOMAS KAMPWIRTH
Contact Address: 149 COLLEGE PARK DR , , SEAL BEACH , CA, 90740 ,
Contact Phone No and Ext: 562-596-3672
Contact Email: FAVILA@BURNS-ENVIRO.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:
Receive Date: 20220831
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220831
Handler Name: THOMAS J KAMPWIRTH TR
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 149 COLLEGE PARK DR
Name: THOMAS KAMPWIRTH	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 562-596-3672	Country:
Source Type: Implementer	Zip Code: 90740

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 149 COLLEGE PARK DR
Name: THOMAS J KAMPWIRTH TR	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 562-596-3672	Country:
Source Type: Implementer	Zip Code: 90740

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
122	1 of 1	SE	0.20 / 1,046.24	7.98 / -6	PHIL MORRILL 156 COLLEGE PARK DR SEAL BEACH CA 90740	HAZNET

SIC Code:		Mailing City:	SEAL BEACH
NAICS Code:		Mailing State:	CA
EPA ID:	CAC002686773	Mailing Zip:	90740
Create Date:	2/23/2012	Region Code:	4
Fac Act Ind:	No	Owner Name:	PHIL MORRILL
Inact Date:	8/22/2012	Owner Addr 1:	156 COLLEGE PARK DR
County Code:	30	Owner Addr 2:	
County Name:	Orange	Owner City:	SEAL BEACH
Mail Name:		Owner State:	CA
Mailing Addr 1:	156 COLLEGE PARK DR	Owner Zip:	90740
Mailing Addr 2:		Owner Phone:	5625962650
Owner Fax:			

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>

DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC002686773>

123	1 of 1	SW	0.15 / 807.93	20.51 / 6	So. CA Edison 6485 Surrey Long Beach CA 91770	CHMIRS
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Control No:		Notified Date:	2/11/200301:14:15 PM
County:	Los Angeles County	Notified Date Time:	
Year:	2003		
URL:			

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Yes	Bbls:	0
Substance:	Unk. PCB Mineral Oil	Cups:	0
Incident Date:	2/11/200312:00:00 AM	Cu Ft:	0
No of Injuries:	0	Gals:	5
No of Fatal:	0	Grams:	0
No of Evacs:	0	Lbs:	0
Cleanup:	Contractor	Liters:	0
Water:	No	Oz:	0
Water Way:		Pts:	0
City:	Long Beach	Qts:	0
County:	Los Angeles County	Sheen:	0
ZIP:	91770	Tons:	0
Site:	Other	Unknown:	0
Admin Agency:	Long Beach Fire Department		
Location:	6485 Surrey		
Description:	On regular check up, discovered this old transformer was leaking		

124	1 of 2	WSW	0.22 / 1,172.00	43.97 / 30	1X SEAGER, PAM 6400 BIXBY HILL RD LONG BEACH CA 908150000	HAZNET
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SIC Code:					Mailing City:	LONG BEACH
NAICS Code:					Mailing State:	CA
EPA ID:	CAC000548832				Mailing Zip:	908150000
Create Date:	12/17/1990				Region Code:	3
Fac Act Ind:	No				Owner Name:	PAM SEAGER
Inact Date:	10/25/2000				Owner Addr 1:	--
County Code:	19				Owner Addr 2:	
County Name:	Los Angeles				Owner City:	--
Mail Name:					Owner State:	99
Mailing Addr 1:	6400 BIXBY HILL RD				Owner Zip:	--
Mailing Addr 2:					Owner Phone:	0000000000
Owner Fax:						

Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
DTSC Handler Profile url: <https://hwts.dtsc.ca.gov/facility/CAC000548832>

124	2 of 2	WSW	0.22 / 1,172.00	43.97 / 30	6400 BIXBY HILL RD LONG BEACH CA 908150000	HIST MANIFEST
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Gen EPA ID: CAC000548832
Create Date: 12/17/1990 0:00:00
Inact Date: 10/25/2000 0:00:00
Facility Mail Street: 6400 BIXBY HILL RD
Facility Mail City: LONG BEACH
Facility Mail State: CA
Facility Mail Zip: 908150000
Contact Phone(s): 2135906610
File Year(s): 1991
Contact Name(s): GREWAL, GARY/ENG

Tanner Information

Method Description:

Tons: 0
Year: 1991
Generator County Code: 19
Generator County: Los Angeles
Method Code:
Tsd County Code: 19
Tsd County: Los Angeles
State Waste Code:
State Waste Code Desc:
Tsd Epa ID: CAD067786749

Tanner Information

Method Description:

Tons: 12.64
Year: 1991

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Generator County Code:		19				
Generator County:		Los Angeles				
Method Code:		D80				
Tsd County Code:		19				
Tsd County:		Los Angeles				
State Waste Code:		151				
State Waste Code Desc:		Asbestos containing waste				
Tsd Epa ID:		CAD067786749				

[125](#) 1 of 1 SW 0.15 / 769.42 16.43 / 2 GANI VOHRA 6484 E SURREY DR LONG BEACH CA 90815 HAZ GEN

Epa ID: CAC002863888 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002863888>

[126](#) 1 of 1 SW 0.15 / 795.56 17.30 / 3 DON FRIZZELL 6485 E SURREY DR LONG BEACH CA 908154744 HAZ GEN

Epa ID: CAC002769989 **Facility County:** 19
Address 2: **County:** Los Angeles
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002769989>

[127](#) 1 of 1 S 0.07 / 346.73 -2.38 / -17 LOS ALAMITOS PRESSURE STATION HWY. 22 & AMP; STUDEBAKER LONG BEACH CA 90802 FINDS/FRS

Registry ID: 110065884902
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-15
Update Date:
Interest Types: STATE MASTER
SIC Codes: 4922
SIC Code Descriptions: NATURAL GAS TRANSMISSION
NAICS Codes:
NAICS Code Descriptions:
Conveyor: CALEPA
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 46

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Census Block Code:		060379800071001				
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:		33.77389				
Longitude:		-118.09806				
Reference Point:						
Coord Collection Method:		UNKNOWN				
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065884902				
Program Acronyms:						
CA-ENVIROVIEW:351686						

128	1 of 1	SE	0.12 / 640.05	8.73 / -6	MARK SUDOCK 404 PURDUE CIR SEAL BEACH CA 907402516	HAZ GEN
Epa ID:	CAC002827750			Facility County:	30	
Address 2:				County:	Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002827750					

129	1 of 2	SSW	0.11 / 581.13	13.18 / -1	EPTC ALAMITOS PARCEL 3-4 692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803	VCP
Estor/EPA ID:	19130113			Permit Renewal Lead:		
Site Code:	401020			Project Manager:	CHAND SULTANA	
Nat Priority List:	NO			Supervisor:	ALLAN PLAZA	
Acres:	0.75 ACRES			Public Partici Spclst:		
Special Program:	VOLUNTARY AGREEMENT - STANDARD VOLUNTARY AGREEMENT			Census Tract:	6037980007	
Funding:	SITE PROPONENT			County:	LOS ANGELES	
Assembly District:	70			Latitude:	33.7740361111111	
Senate District:	34			Longitude:	-118.103033333333	
School District:						
APN:	NONE SPECIFIED					
Cleanup Status:	INACTIVE - ACTION REQUIRED AS OF 9/9/2020					
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY					
Site Type:	VOLUNTARY AGREEMENT					
Office:	CLEANUP CHATSWORTH					
Past Use that Caused Contam:	MANUFACTURING - PETROLEUM					
Potential Media Affected:	OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SOIL					
Potential Contamin of Concern:						
TPH-MOTOR OIL						
Site History:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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The Site is flat, vacant, with little vegetation in an industrial area of Long Beach, California. The Site is owned by Southern California Edison but was previously leased to Intra American Foundation & Drilling Company Inc. During their time onsite, approximately 75% of the property is used for storage of construction materials and equipment consisting of drill augers, hydraulic equipment, large diameter pipes, steel forms and 55-gallon drums. The Site was also used as an equipment maintenance and repair facility. The parcels surrounding the area have been oil fields since the 1950's. Review of past records indicates that the area where the Site is located was formerly a low-lying marsh area that was graded to its present condition. A Phase I Environmental Site Assessment was completed for the Site in July 2000 and a Phase II Environmental Site Assessment was conducted by Southern California Edison in April 2004. The report indicated that the site had been impacted from previous onsite operations however that it was compatible with the current land-use. DTSC approved the report in May 2005 and a Land Use Covenant was drafted and recorded with the County in 2006 prohibiting unrestricted land use. There are no annual inspection reports since then .

Status: INACTIVE - ACTION REQUIRED
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: NA
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19130113

Completed Activities

Title: Document Review
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 9/23/2002
Comments: DTSC completed document review and submitted comments to Coastal Conservancy

Title: Order
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 6/28/2002
Comments: VCA

Title: Preliminary Endangerment Assessment Report
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 5/5/2005
Comments: After several conference calls with the site proponent, DTSC approves the Phase II report. The report indicated that the site had been impacted from previous operations at the site however that those levels were compatible with the current industrial land-use.

129	2 of 2	SSW	0.11 / 581.13	13.18 / -1	EPTC ALAMITOS PARCEL 3-4 692 NORTH STUDEBAKER ROAD LONG BEACH CA 90803	ENVIROSTOR
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Estor/EPA ID:	19130113				Assembly District:	70
Site Code:	401020				Senate District:	34
Nat Priority List:	NO				Permit Renewal Lead:	
APN:	NONE SPECIFIED				Public Partici Spclst:	
Census Tract:	6037980007				Project Manager:	CHAND SULTANA
Site Type:	VOLUNTARY AGREEMENT				County:	LOS ANGELES
Address Description:	692 NORTH STUDEBAKER ROAD				Latitude:	33.7740361111111
Office:	CLEANUP CHATSWORTH				Longitude:	-118.103033333333
Special Program:	VOLUNTARY AGREEMENT - STANDARD VOLUNTARY AGREEMENT				Acres:	0.75 ACRES
Funding:	SITE PROPONENT				Supervisor:	ALLAN PLAZA
Cleanup Status:	INACTIVE - ACTION REQUIRED AS OF 9/9/2020					
Cleanup Oversight Agencies:	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY					
School District:						
Past Use that Caused Contam:	MANUFACTURING - PETROLEUM					
Potential Media Affected:	OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SOIL					
Site History:						

The Site is flat, vacant, with little vegetation in an industrial area of Long Beach, California. The Site is owned by Southern California Edison but was previously leased to Intra American Foundation & Drilling Company Inc. During their time onsite, approximately 75% of the property is used for storage of construction materials and equipment consisting of drill augers, hydraulic equipment, large diameter pipes, steel forms and 55-gallon drums. The Site was also used as an equipment maintenance and repair facility. The parcels surrounding the area have been oil fields since the 1950's. Review of past records indicates that the area where the Site is located was formerly a low-lying marsh area that was graded to its present condition. A Phase I Environmental Site Assessment was completed for the Site in July 2000 and a Phase II Environmental Site Assessment was conducted by Southern California Edison in April 2004. The report indicated that the site had been impacted from previous onsite operations however that it was compatible with the current land-use. DTSC approved the report in May 2005 and a Land Use Covenant was drafted and recorded with the County in 2006 prohibiting unrestricted land use. There are no annual inspection reports since then .

Potential Contamin of Concern:

TPH-MOTOR OIL

Status:	INACTIVE - ACTION REQUIRED
Program Type:	VOLUNTARY CLEANUP
CalEnviroScreen Score:	NA
Summary Link:	https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19130113

Completed Activities

Title:	Order
Title Link:	
Area Name:	
Area Link:	
Sub Area:	
Sub Area Link:	
Document Type:	Standard Voluntary Agreement
Date Completed:	6/28/2002
Comments:	VCA

Title:	Document Review
Title Link:	
Area Name:	
Area Link:	
Sub Area:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sub Area Link:

Document Type: Other Report
Date Completed: 9/23/2002
Comments: DTSC completed document review and submitted comments to Coastal Conservancy

Title: Preliminary Endangerment Assessment Report

Title Link:

Area Name:

Area Link:

Sub Area:

Sub Area Link:

Document Type: Preliminary Endangerment Assessment Report

Date Completed: 5/5/2005

Comments: After several conference calls with the site proponent, DTSC approves the Phase II report. The report indicated that the site had been impacted from previous operations at the site however that those levels were compatible with the current industrial land-use.

[130](#)

1 of 2

SW

0.16 /
820.56

12.94 /
-1

6463 BIXBY TERRACE DR
LONG BEACH CA

ERNS

NRC Report No: 1035531
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date: 1/12/2013 11:59:00 AM
Incident Location:
Incident Dtg: DISCOVERED
Distance from City:
Distance Units:
Direction from City:
Location County: LOS ANGELES
Potential Flag: No
Year: Year 2013 Reports

Latitude Degrees:
Latitude Minutes:
Latitude Seconds:
Longitude Degrees:
Longitude Minutes:
Longitude Seconds:
Lat Quad:
Long Quad:
Location Section:
Location Township:
Location Range:

Description of Incident: CALLER IS REPORTING A SPILL OF RAW SEWAGE FROM A PRIVATE PUMP STATION.

Material Spill Information

Chris Code: NCC	Unit of Measure: UNKNOWN AMOUNT
CAS No: 000000-00-0	If Reached Water: YES
UN No:	Amount in Water: 0
Name of Material: RAW SEWAGE	Unit Reach Water: UNKNOWN AMOUNT
Amount of Material: 0	

Calls Information

Date Time Received: 1/12/2013 4:27:43 PM	Responsible City: LONG BEACH
Date Time Complete: 1/12/2013 4:34:17 PM	Responsible State: CA
Call Type: INC	Responsible Zip:
Resp Company: HOME OWNERS ASSOCIATION	Source: TELEPHONE
Resp Org Type: OTHER	

Incident Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tank ID:					Building ID:	
Tank Regulated:	U				Location Area ID:	
Tank Regulated By:					Location Block ID:	
Capacity of Tank:					OCSG No:	
Capacity Tank Units:					OCSP No:	
Description of Tank:					State Lease No:	
Actual Amount:					Pier Dock No:	
Actual Amount Units:					Berth Slip No:	
Tank Above Ground:	ABOVE				Brake Failure:	U
NPDES:					Airbag Deployed:	U
NPDES Compliance:	U				Transport Contain:	U
Init Contin Rel No:					Location Subdiv:	
Contin Rel Permit:					Platform Rig Name:	
Contin Release Type:					Platform Letter:	
Aircraft ID:					Allision:	U
Aircraft Runway No:					Type of Structure:	
Aircraft Spot No:					Structure Name:	
Aircraft Type:					Structure Oper:	U
Aircraft Model:					Transit Bus Flag:	
Aircraft Fuel Cap:					Date Time Norm Serv:	
Aircraft Fuel Cap U:					Serv Disrupt Time:	
Aircraft Fuel on Brd:					Serv Disrupt Units:	
Aircraft Fuel OB U:					CR Begin Date:	
Aircraft Hanger:					CR End Date:	
Road Mile Marker:					CR Change Date:	
Power Gen Facility:	N				FBI Contact:	
Generating Capacity:					FBI Contact Dt Tm:	
Type of Fixed Obj:	OTHER				Passenger Handling:	
Type of Fuel:					Passenger Route:	XXX
DOT Crossing No:					Passenger Delay:	XXX
DOT Regulated:	U				Sub Part C Test Req:	XXX
Pipeline Type:					Conductor Test:	
Pipeline Abv Ground:	ABOVE				Engineer Test:	
Pipeline Covered:	U				Trainman Test:	
Exposed Underwater:	N				Yard Foreman Test:	
Railroad Hotline:					RCL Operator Test:	
Railroad Milepost:					Brakeman Test:	
Grade Crossing:	U				Train Dispat Test:	
Crossing Device Ty:					Signalman Test:	
Ty Vehicle Involved:					Oth Employee Test:	
Device Operational:	U				Unknown Test:	

Incident Details Information

Release Secured:	Y	State Agen Report No:	
Release Rate:		State Agen on Scene:	WATER DEPT
Release Rate Unit:		State Agen Notified:	WATER DEPT
Release Rate Rate:		Fed Agency Notified:	
Est Duration of Rel:		Oth Agency Notified:	
Desc Remedial Act:	MATERIAL CONTAINED.	Body of Water:	STORM DRAIN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Fire Involved:	N				Tributary of: PACIFIC OCEAN	
Fire Extinguished:	U				Near River Mile Make:	
Any Evacuations:	N				Near River Mile Mark:	
No Evacuated:					Offshore: N	
Who Evacuated:					Weather Conditions: SUNNY	
Radius of Evacu:					Air Temperature:	
Any Injuries:	N				Wind Direction:	
No. Injured:					Wind Speed:	
No. Hospitalized:					Wind Speed Unit:	
No. Fatalities:					Water Supp Contam: U	
Any Fatalities:	N				Water Temperature:	
Any Damages:	N				Wave Condition:	
Damage Amount:					Current Speed:	
Air Corridor Closed:	N				Current Direction:	
Air Corridor Desc:					Current Speed Unit:	
Air Closure Time:					EMPL Fatality:	
Waterway Closed:	N				Pass Fatality:	
Waterway Desc:					Community Impact:	
Waterway Close Time:					Passengers Transfer: NO	
Road Closed:	N				Passenger Injuries:	
Road Desc:					Employee Injuries:	
Road Closure Time:					Occupant Fatality:	
Road Closure Units:					Sheen Size:	
Closure Direction:					Sheen Size Units:	
Major Artery:	No				Sheen Size Length:	
Track Closed:	N				Sheen Size Length U:	
Track Desc:					Sheen Size Width:	
Track Closure Time:					Sheen Size Width U:	
Track Closure Units:					Sheen Color:	
Track Close Dir:					Dir of Sheen Travel:	
Media Interest:	NONE				Sheen Odor Desc:	
Medium Desc:	WATER				Duration Unit:	
Addl Medium Info:	STORM DRAIN				Additional Info:	

[130](#)

2 of 2

SW

0.16 /
820.5612.94 /
-1NRC
6463 Bixby Terrace Dr.
Long Beach CA

CHMIRS

Control No: 13-0258**Notified Date:****County:** Los Angeles County**Notified Date Time:****Year:** 2013**URL:** <https://w3.calema.ca.gov/operational/mal haz. nsf/f1841a103c102734882563e200760c4a/47903b767f54313988257af1007748b3?OpenDocument>**California Hazardous Material Incident Report System (as of 2006 to 2015)****Contained:** Yes**3 Ves >= 300 Tons:** No**1 Substance:** Raw Sewage**Incident Date:** 1/12/2013**1 Measure:** Unknown**Incident Time:** 1159**1 Other:****Spill Site:** Waterways**1 Quantity:** UNK**Injuries?:** No**1 Type:** SEWAGE**No of Injuries:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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1 Pipeline:	No				Fatals?:	No
1 Vessel >= 300 Tons:	No				No of Fatals:	
2 Substance:					Evacs?:	No
2 Quantity:					No of Evacs:	
2 Measure:					Cleanup:	Unknown
2 Type:					Site:	storm drain
2 Other:					Cause:	Unknown
2 Pipeline:	No				Cause Other:	
2 Vessel >= 300 Tons:	No				Dog No:	
3 Substance:					Water:	Yes
3 Quantity:					Water Way:	storm drain
3 Measure:					City:	Long Beach
3 Type:					County:	Los Angeles County
3 Other:					ZIP:	
3 Pipeline:	No					
Admin Agency:		Long Beach Fire Department				
Notification Area:		AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS,CDPH-D.O.,LANDS,PARKS & REC,USCG,Co/WP, Co/Hlth,Co/E-Hlth				
Location:		6463 Bixby Terrace Dr.				
Description:		Caller is reporting a spill of raw sewage from a private pump station.				

Spill Report View

Amount 1:		Creation Date:	01/12/2013 01:42 PM
Amount 2:		Received By:	
Amount 3:		Admin Agency:	
Water:		Admin Agency 2:	
On Scene:		Additional County:	
Other on Scene:		Phone No:	
Other Notified:		Ext:	
Document Title:	SPILL Report	Pag Cell:	
Spill Site:	Waterways		
Type:	SEWAGE		
Cause Desc for Other:			
Person Notifying Cal OES:			

Hazardous Materials Spill Report

Date :	01/12/2013	Water Involved:	Yes
Time:	1342	Drink Wtr Impact:	No
Incident Date:	01/12/2013	Detail for Other:	
Incident Time:	1159	UPRR Rim No:	
Control Cal OES:	13-0258	DOG Unit:	
Control NRC:		RWQCB Unit:	4
Contained:	Yes		
Waterway:	storm drain		
Received By:			
Cleanup By:	Unknown		
Incident Location:	6463 Bixby Terrace Dr.		
Additional County:			
1 Substance:	Raw Sewage		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1 Qty:		=				
1 Amount :		UNK				
1 Measure:		Unknown				
1 Type:		SEWAGE				
1 Other:						
1 Pipeline:		No				
1 Ves >= 300 Tons:		No				
2 Substance:						
2 Qty:		=				
2 Amount:						
2 Measure:						
2 Type:						
2 Other:						
2 Pipeline:		No				
2 Ves >= 300 Tns:		No				
3 Substance:						
3 Qty:		=				
3 Amount:						
3 Measure:						
3 Type:						
3 Other:						
3 Pipeline:		No				
3 Ves >= 300 Tons:		No				
Injuries:		No				
Fatality:		No				
Evacuation:		No				
Known Impact:		Unknown				
Name:						
Agency:		NRC				
Phone:						
Ext:						
Pag Cell:						
PRS Name:						
PRS Agency:		Long Beach Fire Dept.				
PRS Phone:						
PRS Ext:						
PRS Pag Cell:						
Sec Agency:		LACoFD Health Haz-Mat				
Admin Agency:		Long Beach Fire Department				
Admin Agency 2:						
Notification Info:						
Notification List:						
On Scene:		Other				
Other on Scene:		Water Dept.				
Other Notified:		Water Dept.				
Header Unknown:		SOUTH COAST AQMD				
Incident Desc:						
Site:		Waterways				
Reported Cause:		Unknown				
R R Crssing < 50 Ft:						
Description:		Caller is reporting a spill of raw sewage from a private pump station.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Spill Report View

Amount 1:		Creation Date:	01/12/2013 02:45 PM
Amount 2:		Received By:	
Amount 3:		Admin Agency:	
Water:		Admin Agency 2:	
On Scene:		Additional County:	
Other on Scene:		Phone No:	
Other Notified:		Ext:	
Document Title:	Cal OES-Update	Pag Cell:	
Spill Site:			
Type:	SEWAGE		
Cause Desc for Other:			
Person Notifying Cal OES:			

OES Hazardous Materials Spill Update

Occurrence Date:	01/12/2013	2 Substance:	
Occurrence Time:	1159	2 Qty Amount:	
Notify Date:	01/12/2013	2 Measure:	
Notify Time:	1342	2 Type:	
NRC:	1035531	2 Other:	
DOG Unit:		2 Pipeline:	No
RWQCB Unit:	4	2 Ves >= 300 Tons:	No
RWQCB Unit 2:		3 Substance:	
Unknown Header:	SOUTH COAST AQMD	3 Qty Amount:	
1 Substance:	Raw Sewage	3 Measure:	
1 Qty Amount:	UNK	3 Type:	
1 Measure:	Unknown	3 Other:	
1 Type:	SEWAGE	3 Pipeline:	No
1 Other:		3 Ves >= 300 Tons:	No
1 Pipeline:	No	OP Area:	Los Angeles County
1 Ves >= 300 Tons:	No		
Pers Reporting Spill Agency:	Long Beach Fire Dept.		
Pers Notifying Upd Nme:			
Pers Notifying Upd Place:			
Pers Notifying CA OES Agency:	NRC		
Phone No:			
Ext:			
Pag Cell:			
Fax Notifi List:	AA/CUPA, DFG-OSPR, DTSC, RWQCB, US EPA, USFWS, CDPH-D.O., LANDS, PARKS & REC, USCG, Co/WP, Co/Hlth, Co/E-Hlth		
Fax Notification List 2:			
Other Notified:	Water Dept.		
Confirmation Request:			
Administering Agency:	Long Beach Fire Department		
Administering Agency 2:			
Secondary Agency:	LACoFD Health Haz-Mat		
Secondary Agency 2:			
Additional Admin Agency:			
Additional Admin Agency 2:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Additional Counties:

Additional Counties 2:

Doc URL: <https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/a758704baa56f8a588257af1007cf98a?OpenDocument>

Update Known Impact:

Update Cause:

Update Description:

01/12/2013 02:45:03 PM - NRC report #1035531 received.

Situation Update:

NRC report #1035531 received.

Original Description:

Caller is reporting a spill of raw sewage from a private pump station.

OES Hazardous Materials Update Quantities

Amount:

Measure: Unknown

[131](#) 1 of 1

NNW

**0.19 /
989.63**

**11.29 /
-3**

**GABRIEL COHEN
1735 VUELTA GRANDE AVE
LONG BEACH CA 90815**

**RCRA
NON GEN**

EPA Handler ID:

CAC003074639

Gen Status Universe:

No Report

Contact Name:

GABRIEL COHEN

Contact Address:

1735 VUELTA GRANDE AVE , , LONG BEACH , CA, 90815 ,

Contact Phone No and Ext:

424-634-2449

Contact Email:

GENEVADEGUIRE@ALLIANCE-ENVIRO.COM

Contact Country:

County Name:

LOS ANGELES

EPA Region:

09

Land Type:

Receive Date:

20200714

Location Latitude:

Location Longitude:

Violation/Evaluation Summary

Note:

NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:

No

Mixed Waste Generator:

No

Transporter Activity:

No

Transfer Facility:

No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200714
Handler Name: GABRIEL COHEN
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 1735 VUELTA GRANDE AVE
Name: GABRIEL COHEN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 424-634-2449	Country:
Source Type: Implementer	Zip Code: 90815

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 1735 VUELTA GRANDE AVE
Name: GABRIEL COHEN	Street 2:
Date Became Current:	City: LONG BEACH
Date Ended Current:	State: CA
Phone: 424-634-2449	Country:
Source Type: Implementer	Zip Code: 90815

132	1 of 2	SW	0.14 / 753.40	17.94 / 4	VETERANS HEALTH CARE SYSTEM LONG BEACH 6901 EAST 7TH STREET LONG BEACH CA 90815	FINDS/FRS
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Registry ID: 110042340375
FIPS Code:
HUC Code: 18070106
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 23-NOV-10

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Update Date:		03-MAY-15				
Interest Types:		ENFORCEMENT/COMPLIANCE ACTIVITY				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:		ICIS				
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:		46				
Census Block Code:		060375746021000				
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:		33.7744				
Longitude:		-118.1037				
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110042340375				
Program Acronyms:						
ICIS:2200002099						

132	2 of 2	SW	0.14 / 753.40	17.94 / 4	VETERANS HEALTH CARE SYSTEM LONG BEACH 6901 EAST 7TH STREET LONG BEACH CA 90815	ICIS
EPA Region:						
Registry ID:		110042340375				
Pgm Sys ID:		2200002099				
Pgm Sys Acnm:		ICIS				
Permit Type:						
Federal Fac ID:						
Tribal Land Code:						
County:		LOS ANGELES				
Latitude 83:		33.7744				
Longitude 83:		-118.1037				
Details						
Interest Type:		ENFORCEMENT/COMPLIANCE ACTIVITY			Public Ind: Y	
Active Status:						
Accuracy Value:						
Pgm Report URL:		no data yet				
Federal Agency Name:						
Federal Land Ind:						
Fed Facility Code:						
Ref Point Desc:						
Collect Mth Desc:						
Fac URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110042340375				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Program URL:

133	1 of 1	NNW	0.18 / 967.23	12.34 / -2	City of Long Beach Health Dept Atherton at Vuelta Grande Long Beach CA	CHMIRS
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Control No:		Notified Date:	12/15/199806:51:48 PM
County:	Los Angeles County	Notified Date Time:	
Year:	1998		
URL:			

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Unknown	Bbls:	0
Substance:	sewage	Cups:	0
Incident Date:	12/15/199812:00:00 AM	Cu Ft:	0
No of Injuries:	0	Gals:	0.000000
No of Fatal:	0	Grams:	0
No of Evacs:	0	Lbs:	0
Cleanup:	to be determined	Liters:	0
Water:	Yes	Oz:	0
Water Way:	Los Cerritos Channel	Pts:	0
City:	Long Beach	Qts:	0
County:	Los Angeles County	Sheen:	0
ZIP:		Tons:	0
Site:	Road	Unknown:	0

Admin Agency:

Location: Atherton at Vuelta Grande

Description: The sewage is seeping from a cement embankment. It is possible the problem has been ongoing for a month. The release continues at a slow rate (trickling). The source is unknown.

134	1 of 1	SE	0.07 / 351.80	9.29 / -5	STEPHANIE ROHR 1040 FOXBURG #21G SEAL BEACH CA 90740	FINDS/FRS
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Registry ID:	110070462591
FIPS Code:	06059
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	02-JAN-19
Update Date:	
Interest Types:	OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070462591
Program Acronyms:
 RCRAINFO: CAC002971370

135	1 of 3	SSW	0.15 / 796.77	13.93 / 0	AT&T Mobility - (USID207498) 698 N STUDEBAKER RD LONG BEACH CA 90803	CERS HAZ
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Site ID: 551058
Latitude: 33.772896
Longitude: -118.102036
County:

Regulated Programs

EI ID:	10814899	EI Description:	Chemical Storage Facilities
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Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 308 S. Akard St., 17th Floor
City: Dallas
State: TX
Country:
Zip Code: 75202
Phone:

Affil Type Desc: Legal Owner
Entity Name: New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:
Address: 308 S. Akard St., 17th Floor
City: Dallas
State: TX
Country: United States

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Zip Code:		75202				
Phone:		(214) 464-1712				
Affil Type Desc:		Operator				
Entity Name:		AT&T Mobility				
Entity Title:						
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:		(800) 566-9347				
Affil Type Desc:		Parent Corporation				
Entity Name:		AT&T Mobility				
Entity Title:						
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:						
Affil Type Desc:		Document Preparer				
Entity Name:		Peter Burnell, Sigma Consultants, Inc.				
Entity Title:						
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:						
Affil Type Desc:		Identification Signer				
Entity Name:		Jeremy McGrue				
Entity Title:		National EPCRA Manager				
Address:						
City:						
State:						
Country:						
Zip Code:						
Phone:						
Affil Type Desc:		CUPA District				
Entity Name:		Long Beach Environmental Health				
Entity Title:						
Address:		2525 Grand Avenue				
City:		Long Beach				
State:		CA				
Country:						
Zip Code:		90815				
Phone:		(562) 570-4131				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Affil Type Desc: Environmental Contact
Entity Name: AT&T EH&S Hotline - Option #1
Entity Title:
Address: 308 S. Akard St., 17th Floor
City: Dallas
State: TX
Country:
Zip Code: 75202
Phone:

Coordinates

Env Int Type Code: HMBP **Longitude:** -118.100850
Program ID: 10814899 **Coord Name:**
Latitude: 33.773480 **Ref Point Type Desc:** Center of a facility or station.

135	2 of 3	SSW	0.15 / 796.77	13.93 / 0	NEW CINGULAR WIRELESS PCS LLC 698 STUDEBAKER RD LONG BEACH CA 90803	RCRA NON GEN
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EPA Handler ID: CAL000454395
Gen Status Universe: No Report
Contact Name: EH&S WASTE TEAM
Contact Address: 308 S AKARD ST 17TH FL , , DALLAS , TX, 75202 ,
Contact Phone No and Ext: 800-566-9347
Contact Email: AW3731@ATT.COM
Contact Country:
County Name: LOS ANGELES
EPA Region: 09
Land Type:
Receive Date: 20200430
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200430
Handler Name: NEW CINGULAR WIRELESS PCS LLC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:	
Type: Other	Street 1:	308 S AKARD ST 17TH FL
Name: EH&S WASTE TEAM	Street 2:	
Date Became Current:	City:	DALLAS
Date Ended Current:	State:	TX
Phone: 800-566-9347	Country:	
Source Type: Implementer	Zip Code:	75202

Owner/Operator Ind: Current Owner	Street No:	
Type: Other	Street 1:	308 S AKARD ST 17TH FL
Name: NEW CINGULAR WIRELESS PCS LLC	Street 2:	
Date Became Current:	City:	DALLAS
Date Ended Current:	State:	TX
Phone: 800-566-9347	Country:	
Source Type: Implementer	Zip Code:	75202

135	3 of 3	SSW	0.15 / 796.77	13.93 / 0	NEW CINGULAR WIRELESS PCS LLC 698 STUDEBAKER RD LONG BEACH CA 90803	FINDS/FRS
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Registry ID: 110070797235
FIPS Code: 06037
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 10-JUN-20
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
NAICS Codes:		517911				
NAICS Code Descriptions:						
Conveyor:						
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:						
Census Block Code:						
EPA Region Code:		09				
County Name:		LOS ANGELES				
US/Mexico Border Ind:						
Latitude:						
Longitude:						
Reference Point:						
Coord Collection Method:						
Accuracy Value:						
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070797235				
Program Acronyms:						
RCRAINFO:CAL000454395						

136	1 of 1	SW	0.23 / 1,230.37	22.44 / 8	Long Beach Fire 6450 Bixby Terrace Drive Long Beach CA	CHMIRS
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Control No:	09-5247	Notified Date:	
County:	Los Angeles County	Notified Date Time:	
Year:	2009		
URL:	https://w3.calema.ca.gov/operational/mal haz.nsf/f1841a103c102734882563e200760c4a/26f9191b0bf683d58825760000271650?OpenDocument		

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	No	3 Ves >= 300 Tons:	
1 Substance:	Sewage	Incident Date:	7/26/2009
1 Measure:	Gal(s)	Incident Time:	2328
1 Other:		Spill Site:	Residence
1 Quantity:	500	Injuries?:	
1 Type:	SEWAGE	No of Injuries:	0
1 Pipeline:		Fatals?:	
1 Vessel >= 300 Tons:		No of Fatals:	0
2 Substance:		Evacs?:	
2 Quantity:		No of Evacs:	0
2 Measure:		Cleanup:	Fire Dept.
2 Type:		Site:	Storm Drain
2 Other:		Cause:	Unknown
2 Pipeline:		Cause Other:	
2 Vessel >= 300 Tons:		Dog No:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
3 Substance:					Water:	Yes
3 Quantity:					Water Way:	Storm Drain
3 Measure:					City:	Long Beach
3 Type:					County:	Los Angeles County
3 Other:					ZIP:	
3 Pipeline:						
Admin Agency:		Long Beach Fire Department				
Notification Area:		AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS,COASTAL COM,LANDS,PARKS & REC,USCG				
Location:		6450 Bixby Terrace Drive				
Description:		Caller states that sewage is flowing out of a housing complex from an unknown. Fire Dept is trying to block off the storm drain.				

Spill Report View

Amount 1:		Creation Date:	07/27/2009 12:06 AM
Amount 2:		Received By:	
Amount 3:		Admin Agency:	
Water:		Admin Agency 2:	
On Scene:		Additional County:	
Other on Scene:		Phone No:	
Other Notified:		Ext:	
Document Title:	SPILL Report	Pag Cell:	
Spill Site:	Residence		
Type:	SEWAGE		
Cause Desc for Other:			
Person Notifying Cal OES:			

Hazardous Materials Spill Report

Date :	07/27/2009	Water Involved:	Yes
Time:	006	Drink Wtr Impact:	No
Incident Date:	07/26/2009	Detail for Other:	
Incident Time:	2328	UPRR Rim No:	
Control Cal OES:	09-5247	DOG Unit:	
Control NRC:	912826	RWQCB Unit:	4
Contained:	No		
Waterway:	Storm Drain		
Received By:			
Cleanup By:	Fire Dept.		
Incident Location:	6450 Bixby Terrace Drive		
Additional County:			
1 Substance:	Sewage		
1 Qty:	=		
1 Amount :	500		
1 Measure:	Gal(s)		
1 Type:	SEWAGE		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
2 Amount:						
2 Measure:						
2 Type:						
2 Other:						
2 Pipeline:		No				
2 Ves >= 300 Tns:		No				
3 Substance:						
3 Qty:		=				
3 Amount:						
3 Measure:						
3 Type:						
3 Other:						
3 Pipeline:		No				
3 Ves >= 300 Tons:		No				
Injuries:						
Fatality:						
Evacuation:						
Known Impact:						
Name:						
Agency:		Long Beach Fire				
Phone:						
Ext:						
Pag Cell:						
PRS Name:						
PRS Agency:						
PRS Phone:						
PRS Ext:						
PRS Pag Cell:						
Sec Agency:		LACoFD Health Haz-Mat				
Admin Agency:		Long Beach Fire Department				
Admin Agency 2:						
Notification Info:						
Notification List:						
On Scene:		Fire Dept.				
Other on Scene:						
Other Notified:						
Header Unknown:		SOUTH COAST AQMD				
Incident Desc:						
Site:		Residence				
Reported Cause:		Unknown				
R R Crssing < 50 Ft:						
Description:		Caller states that sewage is flowing out of a housing complex from an unknown. Fire Dept is trying to block off the storm drain.				

[137](#)

1 of 1

NNE

0.25 /
1,297.41

16.55 /
2

KEN STUTZMAN
1830 STEVELY AVE
LONG BEACH CA 90815

HAZNET

SIC Code:

NAICS Code:

EPA ID:

Create Date:

CAC002615756

4/20/2007

Mailing City:

Mailing State:

Mailing Zip:

Region Code:

LONG BEACH

CA

90815

3

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Fac Act Ind:	No				Owner Name:	KEN STUTZMAN
Inact Date:	10/18/2007				Owner Addr 1:	1830 STEVELY AVE
County Code:	19				Owner Addr 2:	
County Name:	Los Angeles				Owner City:	LONG BEACH
Mail Name:					Owner State:	CA
Mailing Addr 1:	1830 STEVELY AVE				Owner Zip:	90815
Mailing Addr 2:					Owner Phone:	000000000
Owner Fax:						
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC002615756					

138	1 of 1	NNW	0.16 / 860.62	12.54 / -2	TRACE EDWARDS 1833 NIPOMO AVE LONG BEACH CA 90815	RCRA NON GEN
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EPA Handler ID:	CAC003069451
Gen Status Universe:	No Report
Contact Name:	TRACE EDWARDS
Contact Address:	1833 NIPOMO AVE , , LONG BEACH , CA, 90815 ,
Contact Phone No and Ext:	714-856-0441
Contact Email:	ANAB@PWSEI.COM
Contact Country:	
County Name:	LOS ANGELES
EPA Region:	09
Land Type:	
Receive Date:	20200604
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20200604
 Handler Name: TRACE EDWARDS
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1833 NIPOMO AVE
Name:	TRACE EDWARDS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-856-0441	Country:	
Source Type:	Implementer	Zip Code:	90815

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1833 NIPOMO AVE
Name:	TRACE EDWARDS	Street 2:	
Date Became Current:		City:	LONG BEACH
Date Ended Current:		State:	CA
Phone:	714-856-0441	Country:	
Source Type:	Implementer	Zip Code:	90815

139	1 of 3	SE	0.16 / 868.38	9.33 / -5	ALBERT COMIA 13020 OAK HILLS DR UNIT 225-F SEAL BEACH CA 90740-3288	RCRA NON GEN
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EPA Handler ID: CAC003030141
 Gen Status Universe: No Report
 Contact Name: ALBERT COMIA
 Contact Address: 13020 OAK HILLS DR , UNIT 225-F , SEAL BEACH , CA, 90740-3288 ,
 Contact Phone No and Ext: 562-715-3821
 Contact Email: CRISTAL.TEECOR@YAHOO.COM
 Contact Country:
 County Name: ORANGE
 EPA Region: 09
 Land Type:
 Receive Date: 20190820
 Location Latitude:
 Location Longitude:

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190820
Handler Name: ALBERT COMIA
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 13020 OAK HILLS DR
Name: ALBERT COMIA	Street 2: UNIT 225-F
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 562-715-3821	Country:
Source Type: Implementer	Zip Code: 90740-3288

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 13020 OAK HILLS DR
Name: ALBERT COMIA	Street 2: UNIT 225-F
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 562-715-3821	Country:
Source Type: Implementer	Zip Code: 90740-3288

139	2 of 3	SE	0.16 / 868.38	9.33 / -5	ALBERT COMIA 13020 OAK HILLS DR	FINDS/FRS
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SEAL BEACH CA 90740-3288

Registry ID: 110070655260
FIPS Code: 06059
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location: UNIT 225-F
Create Date: 26-NOV-19
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070655260
Program Acronyms:
 RCRAINFO:CAC003030141

[139](#)

3 of 3

SE

0.16 /
868.38

9.33 /
-5

NEIL ARONOW
13020 OAK HILLS DR UNIT 225G
SEAL BEACH CA 90740

RCRA
NON GEN

EPA Handler ID: CAC003139068
Gen Status Universe: No Report
Contact Name: NEIL ARONOW
Contact Address: 13020 OAK HILLS DR , UNIT 225G , SEAL BEACH , CA, 90740 ,
Contact Phone No and Ext: 213-675-3554
Contact Email: MANIFEST.SIRRIIS@GMAIL.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Receive Date: 20210915
 Location Latitude:
 Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20210915
 Handler Name: NEIL ARONOW
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 13020 OAK HILLS DR
Name: NEIL ARONOW	Street 2: UNIT 225G
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 213-675-3554	Country:
Source Type: Implementer	Zip Code: 90740
Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 13020 OAK HILLS DR
Name: NEIL ARONOW	Street 2: UNIT 225G

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:				City:	SEAL BEACH	
Date Ended Current:				State:	CA	
Phone:	213-675-3554			Country:		
Source Type:	Implementer			Zip Code:	90740	
140	1 of 2	SSE	0.10 / 549.82	7.57 / -7	1080 BROOKLINE RD SEAL BEACH CA	HIST CHMIRS
OES Control NO:	9190066			Incident Date:	2/12/1991	
Release Factors:	Mechanical Failure			Date Reported:	12/1/1991	
Release Text:				Fatalities:	0	
Equipm Involved:	Other			Other Injury:	0	
Action Taken Text:				Other Decon:		
Chemicals:	GASOLINE			Other Fatal:	0	
Case Number:				Vehicle:	VW	
HazMat Other:				State:	CA	
HM Injury:	0			CA DOT PUC ICC:	SQY689	
Decon:				Company Name:		
Agency Name:	ORANGE CFD			County:	ORANGE	
HazMat Pers:	Dot Manual, On-site Fire Services					
Action Taken:	Remove Hazard (Neutralize)					
More than three involved?:						
140	2 of 2	SSE	0.10 / 549.82	7.57 / -7	BILL HAMILTON 1080 BROOKLINE RD APT 213A SEAL BEACH CA 907403271	HAZ GEN
Epa ID:	CAC002832792			Facility County:	30	
Address 2:				County:	Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002832792					
141	1 of 1	SSE	0.10 / 551.11	7.64 / -7	CAROL COX 1060 BROOKLINE RD #212A SEAL BEACH CA 90740	RCRA NON GEN
EPA Handler ID:	CAC003166833					
Gen Status Universe:	No Report					
Contact Name:	CAROL COX					
Contact Address:	1060 BROOKLINE RD #212A , , SEAL BEACH , CA, 90740 ,					
Contact Phone No and Ext:	714-401-5162					
Contact Email:	CACLUVSJC@YAHOO.COM					
Contact Country:						
County Name:	ORANGE					
EPA Region:	09					
Land Type:						
Receive Date:	20220317					
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20220317
Handler Name: CAROL COX
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Other	Street 1: 1060 BROOKLINE RD #212A
Name: CAROL COX	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 714-401-5162	Country:
Source Type: Implementer	Zip Code: 90740

Owner/Operator Ind: Current Operator	Street No:
Type: Other	Street 1: 1060 BROOKLINE RD #212A
Name: CAROL COX	Street 2:
Date Became Current:	City: SEAL BEACH
Date Ended Current:	State: CA
Phone: 714-401-5162	Country:
Source Type: Implementer	Zip Code: 90740

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
142	1 of 1	SSE	0.11 / 604.21	7.72 / -7	STEPHEN J LOPEZ 1100 BROOKLINE RD UNIT 222-A SEAL BEACH CA 90740	HAZ GEN

Epa ID: CAC002919611

Facility County:

Address 2:

County:

Details DTSC HWTS:

The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:

<https://hwts.dtsc.ca.gov/search>

Handler Profile URL:

<https://hwts.dtsc.ca.gov/facility/CAC002919611>

143	1 of 1	SE	0.18 / 967.55	9.02 / -5	DONNA WENRICH 13061 OAK HILL DRIVE #221-L SEAL BEACH CA 90740	FINDS/FRS
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Registry ID:

110070439312

FIPS Code:

06059

HUC Code:

Site Type Name:

STATIONARY

Location Description:

Supplemental Location:

Create Date:

31-DEC-18

Update Date:

Interest Types:

OTHER HAZARDOUS WASTE ACTIVITIES

SIC Codes:

SIC Code Descriptions:

NAICS Codes:

NAICS Code Descriptions:

Conveyor:

Federal Facility Code:

Federal Agency Name:

Tribal Land Code:

Tribal Land Name:

Congressional Dist No:

Census Block Code:

EPA Region Code:

09

County Name:

ORANGE

US/Mexico Border Ind:

Latitude:

Longitude:

Reference Point:

Coord Collection Method:

Accuracy Value:

Datum:

NAD83

Source:

Facility Detail Rprt URL:

https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070439312

Program Acronyms:

RCRAINFO:CAC002986156

144	1 of 1	SE	0.18 / 968.44	9.02 / -5	LUKA SIDARONS 13081 OAK HILLS DRIVE #223F	HAZ GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SEAL BEACH CA 90740						
Epa ID:	CAC002923420				Facility County: 30	
Address 2:					County: Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002923420					
145	1 of 1	SSE	0.13 / 702.19	7.65 / -7	LYNNE RETMIER 13140 NASSAU DR APT 214B SEAL BEACH CA 907403227	HAZ GEN
Epa ID:	CAC002874878				Facility County: 30	
Address 2:					County: Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002874878					
146	1 of 2	NNW	0.24 / 1,266.87	13.37 / -1	RYAN MCMULLAN 1903 VUELTA GRANDE AVE LONG BEACH CA 90815	HAZNET
SIC Code:					Mailing City: LONG BEACH	
NAICS Code:					Mailing State: CA	
EPA ID:	CAC002657863				Mailing Zip: 90815	
Create Date:	9/20/2010				Region Code: 3	
Fac Act Ind:	No				Owner Name: RYAN MCMULLAN	
Inact Date:	3/20/2011				Owner Addr 1: 1903 VUELTA GRANDE AVE	
County Code:	19				Owner Addr 2:	
County Name:	Los Angeles				Owner City: LONG BEACH	
Mail Name:					Owner State: CA	
Mailing Addr 1:	1903 VUELTA GRANDE AVE				Owner Zip: 90815	
Mailing Addr 2:					Owner Phone: 3109441586	
Owner Fax:						
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
DTSC Handler Profile url:	https://hwts.dtsc.ca.gov/facility/CAC002657863					
146	2 of 2	NNW	0.24 / 1,266.87	13.37 / -1	SARAH & RYAN MCMULLAN 1903 VUELTA GRANDE AVE LONG BEACH CA 90815	HAZ GEN
Epa ID:	CAC002657978				Facility County: 19	
Address 2:					County: Los Angeles	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002657978					
147	1 of 1	SE	0.23 / 1,202.46	8.04 / -6	LEISURE WORLD, INC 1280 SCIOTO RD SEAL BEACH CA 90790	HAZNET

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SIC Code: NAICS Code: EPA ID: CAC002565884 Create Date: 5/29/2003 Fac Act Ind: No Inact Date: 11/26/2003 County Code: 30 County Name: Orange Mail Name: Mailing Addr 1: 1280 SCIOTO RD Mailing Addr 2: Owner Fax: Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search DTSC Handler Profile url: https://hwts.dtsc.ca.gov/facility/CAC002565884						
				Mailing City: SEAL BEACH Mailing State: CA Mailing Zip: 90790 Region Code: 4 Owner Name: LEISURE WORLD, INC Owner Addr 1: 1280 SCIOTO RD Owner Addr 2: Owner City: SEAL BEACH Owner State: CA Owner Zip: 90790 Owner Phone: 5624316586		

148	1 of 1	N	0.22 / 1,168.50	16.24 / 2	GENNI PROGLIO 6931 E FAIRBROOK ST LONG BEACH CA 908153602	HAZ GEN
Epa ID: CAC002671156				Facility County: 19		
Address 2:				County: Los Angeles		
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002671156				

149	1 of 1	SE	0.23 / 1,238.11	8.83 / -5	DORIS WEINERT 13121 OAKHILLS RD UNIT 233-F SEAL BEACH CA 90740	HAZ GEN
Epa ID: CAC002919626				Facility County:		
Address 2:				County:		
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002919626				

150	1 of 2	SE	0.24 / 1,254.28	8.83 / -5	JIMMIE AKARASRIWON 13101 OAK HILLS DR APT 234G SEAL BEACH CA 907403237	HAZ GEN
Epa ID: CAC002829400				Facility County: 30		
Address 2:				County: Orange		
Details DTSC HWTS:		The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search				
Handler Profile URL:		https://hwts.dtsc.ca.gov/facility/CAC002829400				

150	2 of 2	SE	0.24 / 1,254.28	8.83 / -5	BETH MAYER 13101 OAK HILLS DR # 23A SEAL BEACH CA 907403295	HAZ GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Epa ID:	CAC002864355	Facility County:	30
Address 2:		County:	Orange
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search		
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002864355		

151	1 of 1	SE	0.23 / 1,222.41	8.59 / -6	TOM DUCKWORTH 1123 NORTHWOOD 236H SEAL BEACH CA 90740	RCRA NON GEN
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EPA Handler ID: CAC002988008
Gen Status Universe: No Report
Contact Name: TOM DUCKWORTH
Contact Address: 1123 NORTHWOOD 236H , , SEAL BEACH , CA, 90740 ,
Contact Phone No and Ext: 562-296-5641
Contact Email: MANIFEST.SIRRIS@GMAIL.COM
Contact Country:
County Name: ORANGE
EPA Region: 09
Land Type:
Receive Date: 20181106
Location Latitude: 33.771339
Location Longitude: -118.09282

Violation/Evaluation Summary

Note: NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Receive Date:		20181106				
Handler Name:		TOM DUCKWORTH				
Source Type:		Implementer				
Federal Waste Generator Code:		N				
Generator Code Description:		Not a Generator, Verified				

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Other	Street 1:	1123 NORTHWOOD 236H
Name:	TOM DUCKWORTH	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	562-396-5641	Country:	
Source Type:	Implementer	Zip Code:	90740
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Other	Street 1:	1123 NORTHWOOD 236H
Name:	TOM DUCKWORTH	Street 2:	
Date Became Current:		City:	SEAL BEACH
Date Ended Current:		State:	CA
Phone:	562-296-5641	Country:	
Source Type:	Implementer	Zip Code:	90740

152	1 of 1	SE	0.23 / 1,226.31	8.67 / -6	JOHANSEN, RICHARD 1125 NORTHWOOD RD. SEAL BEACH CA 90740	HAZ GEN
Epa ID:	CAC002743881		Facility County:		30	
Address 2:			County:		Orange	
Details DTSC HWTS:	The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search					
Handler Profile URL:	https://hwts.dtsc.ca.gov/facility/CAC002743881					

153	1 of 1	SE	0.23 / 1,225.06	8.67 / -6	TOM DUCKWORTH 1123 NORTHWOOD 236H SEAL BEACH CA 90740	FINDS/FRS
Registry ID:	110070441615					
FIPS Code:	06059					
HUC Code:						
Site Type Name:	STATIONARY					
Location Description:						
Supplemental Location:						
Create Date:	02-JAN-19					
Update Date:						
Interest Types:	OTHER HAZARDOUS WASTE ACTIVITIES					
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 09
County Name: ORANGE
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070441615
Program Acronyms:
 RCRAINFO:CAC002988008

154	1 of 1	SE	0.23 / 1,223.86	8.67 / -6	ALICE CALHOUN 1121 NORTHWOOD RD APT 237E SEAL BEACH CA 907403337	HAZ GEN
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Epa ID: CAC002874879
Address 2:
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System:
<https://hwts.dtsc.ca.gov/search>
Handler Profile URL: <https://hwts.dtsc.ca.gov/facility/CAC002874879>

Unplottable Summary

Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
ERNS		E 7TH STREET N STUDEBAKER ROAD	SEAL BEACH CA		806917668

Unplottable Report

Site:

E 7TH STREET N STUDEBAKER ROAD SEAL BEACH CA

ERNS

NRC Report No:	905580	Latitude Degrees:	
Type of Incident:	UNKNOWN SHEEN	Latitude Minutes:	
Incident Cause:	UNKNOWN	Latitude Seconds:	
Incident Date:	5/14/2009 9:30:00 AM	Longitude Degrees:	
Incident Location:	UNKNOWN SHEEN INCIDENT	Longitude Minutes:	
Incident Dtg:	DISCOVERED	Longitude Seconds:	
Distance from City:		Lat Quad:	
Distance Units:		Long Quad:	
Direction from City:		Location Section:	
Location County:	LOS ANGELES	Location Township:	
Potential Flag:	No	Location Range:	
Year:	Year 2009 Reports		
Description of Incident:	THE CALLER IS REPORTING A FOREIGN SUBSTANCE IN THE WATER. THE ORIGIN OF THE SUBSTANCE IS UNKNOWN. THE CALLER STATED THAT THE PRODUCT IS PINK IN COLOR, AND THE PRODUCT FLOATS. THE CALLER STATED THAT THE PRODUCT MAY BE PAINT		

Material Spill Information

Chris Code:	OUN	Unit of Measure:	UNKNOWN AMOUNT
CAS No:	000000-00-0	If Reached Water:	YES
UN No:		Amount in Water:	0
Name of Material:	UNKNOWN OIL	Unit Reach Water:	UNKNOWN AMOUNT
Amount of Material:	0		

Calls Information

Date Time Received:	5/14/2009 12:39:29 PM	Responsible City:	
Date Time Complete:	5/14/2009 12:58:23 PM	Responsible State:	XX
Call Type:	INC	Responsible Zip:	
Resp Company:		Source:	TELEPHONE
Resp Org Type:	UNKNOWN		

Incident Information

Tank ID:		Building ID:	
Tank Regulated:	U	Location Area ID:	
Tank Regulated By:		Location Block ID:	
Capacity of Tank:		OCSG No:	
Capacity Tank Units:		OCSF No:	
Description of Tank:		State Lease No:	
Actual Amount:		Pier Dock No:	
Actual Amount Units:		Berth Slip No:	
Tank Above Ground:	ABOVE	Brake Failure:	U
NPDES:		Airbag Deployed:	U
NPDES Compliance:	U	Transport Contain:	U
Init Contin Rel No:		Location Subdiv:	
Contin Rel Permit:		Platform Rig Name:	
Contin Release Type:		Platform Letter:	
Aircraft ID:		Allision:	N
Aircraft Runway No:		Type of Structure:	
Aircraft Spot No:		Structure Name:	
Aircraft Type:		Structure Oper:	U
Aircraft Model:		Transit Bus Flag:	
Aircraft Fuel Cap:		Date Time Norm Serv:	
Aircraft Fuel Cap U:		Serv Disrupt Time:	
Aircraft Fuel on Brd:		Serv Disrupt Units:	

Aircraft Fuel OB U:
Aircraft Hanger:
Road Mile Marker:
Power Gen Facility: U
Generating Capacity:
Type of Fixed Obj:
Type of Fuel:
DOT Crossing No:
DOT Regulated: U
Pipeline Type:
Pipeline Abv Ground: ABOVE
Pipeline Covered: U
Exposed Underwater: N
Railroad Hotline:
Railroad Milepost:
Grade Crossing: U
Crossing Device Ty:
Ty Vehicle Involved:
Device Operational: U

CR Begin Date:
CR End Date:
CR Change Date:
FBI Contact:
FBI Contact Dt Tm:
Passenger Handling:
Passenger Route: XXX
Passenger Delay: XXX
Sub Part C Test Req: XXX
Conductor Test:
Engineer Test:
Trainman Test:
Yard Foreman Test:
RCL Operator Test:
Brakeman Test:
Train Dispat Test:
Signalman Test:
Oth Employee Test:
Unknown Test:

Incident Details Information

Release Secured: U
Release Rate:
Release Rate Unit:
Release Rate Rate:
Est Duration of Rel:
Desc Remedial Act: NONE
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
No Evacuated:
Who Evacuated:
Radius of Evacu:
Any Injuries: N
No. Injured:
No. Hospitalized:
No. Fatalities:
Any Fatalities: N
Any Damages: N
Damage Amount:
Air Corridor Closed: N
Air Corridor Desc:
Air Closure Time:
Waterway Closed: N
Waterway Desc:
Waterway Close Time:
Road Closed: N
Road Desc:
Road Closure Time:
Road Closure Units:
Closure Direction:
Major Artery: No
Track Closed: N
Track Desc:
Track Closure Time:
Track Closure Units:
Track Close Dir:
Media Interest: NONE
Medium Desc: WATER
Addl Medium Info:

State Agen Report No: NONE
State Agen on Scene: NONE
State Agen Notified: NONE
Fed Agency Notified: USCG
Oth Agency Notified:
Body of Water: LOS CERRITOS CHANNEL
Tributary of: ALAMITOS BAY
Near River Mile Make:
Near River Mile Mark:
Offshore: N
Weather Conditions: SUNNY
Air Temperature: 60
Wind Direction: W
Wind Speed: 4
Wind Speed Unit: MPH
Water Supp Contam: N
Water Temperature:
Wave Condition:
Current Speed:
Current Direction:
Current Speed Unit:
EMPL Fatality:
Pass Fatality:
Community Impact:
Passengers Transfer: NO
Passenger Injuries:
Employee Injuries:
Occupant Fatality:
Sheen Size:
Sheen Size Units:
Sheen Size Length: 150
Sheen Size Length U: FEET
Sheen Size Width: 4
Sheen Size Width U: FEET
Sheen Color: OTHER
Dir of Sheen Travel:
Sheen Odor Desc:
Duration Unit:
Additional Info: CALLER HAD NO ADDITIONAL INFORMATION.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program:

[DOE FUSRAP](#)

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List:

[NPL](#)

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 26, 2022

National Priority List - Proposed:

[PROPOSED NPL](#)

Sites proposed - by the EPA, the state agency, or concerned citizens - for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 26, 2022

Deleted NPL:

[DELETED NPL](#)

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 26, 2022

SEMS List 8R Active Site Inventory:

[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

Government Publication Date: Sep 28, 2022

SEMS List 8R Archive Sites:

[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Sep 28, 2022

Inventory of Open Dumps, June 1985:

[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System -

[CERCLIS](#)

CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Sep 5, 2022

RCRA non-CORRACTS TSD Facilities:

[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Sep 5, 2022

RCRA Generator List:

[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Sep 5, 2022

RCRA Small Quantity Generators List:

[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Sep 5, 2022

RCRA Very Small Quantity Generators List:

[RCRA VSQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Sep 5, 2022

RCRA Non-Generators:

[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Sep 5, 2022

RCRA Sites with Controls:

[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Sep 5, 2022

Federal Engineering Controls-ECs:

[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Oct 27, 2022

Federal Institutional Controls- ICs:

FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Oct 27, 2022

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Jul 26, 2022

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Aug 28, 2022

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

[FRP](#)

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 31, 2021

Delisted Facility Response Plans:

[DELISTED FRP](#)

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 31, 2021

Historical Gas Stations:

[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Aug 30, 2022

Petroleum Product and Crude Oil Rail Terminals:

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jun 29, 2022

LIEN on Property:

[SEMS LIEN](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Sep 28, 2022

Superfund Decision Documents:

[SUPERFUND ROD](#)

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Sep 28, 2022

State

State Response Sites:

[RESPONSE](#)

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Oct 17, 2022

EnviroStor Database:

[ENVIROSTOR](#)

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Oct 17, 2022

Delisted State Response Sites:

DELISTED ENVIS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Oct 17, 2022

Solid Waste Information System (SWIS):

SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Aug 3, 2022

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels:

SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Waste Management Unit Database:

WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Oct 17, 2022

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers:

C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers:

RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Oct 11, 2022

Listing of Certified Processors:

PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Oct 11, 2022

Listing of Certified Dropoff, Collection, and Community Service Programs:

CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Oct 11, 2022

Land Disposal Sites:

LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Jul 25, 2022

Leaking Underground Fuel Tank Reports:

LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Jul 25, 2022

Delisted Leaking Storage Tanks:

DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Jul 25, 2022

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Jul 20, 2022

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

Government Publication Date: May 5, 2021

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System:

UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks:

AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks:

AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks:

TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Oct 6, 2022

Delisted Storage Tanks:

[DELISTED TNK](#)

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Oct 6, 2022

California Environmental Reporting System (CERS) Tanks:

[CERS TANK](#)

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Oct 7, 2022

Delisted California Environmental Reporting System (CERS) Tanks:

[DELISTED CTNK](#)

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Oct 7, 2022

Historical Hazardous Substance Storage Container Information - Facility Summary:

[HIST TANK](#)

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in the 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:

[LUR](#)

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Oct 17, 2022

CALSITES Database:

[CALSITES](#)

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions:

[HLUR](#)

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions:

[DEED](#)

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Jul 25, 2022

Voluntary Cleanup Program:

[VCP](#)

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Oct 17, 2022

GeoTracker Cleanup Program Sites:

[CLEANUP SITES](#)

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jul 25, 2022

Delisted Cleanup Program Sites:

[DELISTED CLEANUP](#)

A list of Cleanup Program sites which were once included - and have since been removed from - the list of Cleanup Program Sites in GeoTracker. GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Government Publication Date: Jul 25, 2022

Delisted County Records:

[DELISTED COUNTY](#)

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Nov 29, 2022

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

[INDIAN LUST](#)

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2022

Underground Storage Tanks (USTs) on Indian Lands:

[INDIAN UST](#)

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2022

Delisted Tribal Leaking Storage Tanks:

[DELISTED ILST](#)

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 9, 2022

Delisted Tribal Underground Storage Tanks:

[DELISTED IUST](#)

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 20, 2022

County

Los Angeles County - Site Mitigation List:

[SML LA](#)

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: May 26, 2021

Los Angeles County - Solid Waste Sites:

[SWF LA COUNTY](#)

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Nov 10, 2022

Los Angeles County - CUPA Program Records:

[CUPA LA COUNTY](#)

A list of inspection and enforcement records for active and inactive CUPA Program facilities, made available by the Health Hazardous Materials Division (HHMD) of the County of Los Angeles Fire Department. Includes Hazardous Materials Business Plan (HMBP), California Accidental Release Prevention Plan (CalARP), Hazardous Waste Generator (HWG), and the Aboveground Petroleum Storage Act Programs (APSA). Inactive programs include facilities that are out of business or no longer regulated by the HHMD.

Government Publication Date: Mar 25, 2020

Los Angeles County - HMS List:

[HMS LA](#)

List of sites in the Los Angeles County Department of Public Works Hazardous Materials System (HMS) Database which have or have had permits for Industrial Waste, Underground Storage Tanks, or Stormwater in the county of Los Angeles.

Government Publication Date: Nov 5, 2020

Los Angeles County - Santa Fe Springs Underground Storage Tank:

[UST SANTAFESP](#)

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Fe Springs. This list is made available by Santa Fe Springs Department of Fire-Rescue.

Government Publication Date: Feb 11, 2022

Los Angeles County - Long Beach UST List:

[UST LONGB](#)

List of registered Underground Storage Tanks (USTs) in the City of Long Beach, Los Angeles County, made available by the Long Beach Certified Unified Program Agency (CUPA). The Long Beach CUPA operates under oversight shared by the Long Beach Fire Department and Health Department.

Government Publication Date: Jul 9, 2018

Los Angeles County - Burbank City CUPA List:

[CUPA BURBANK](#)

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Burbank. This list is made available by the City of Burbank Fire Department.

Government Publication Date: Aug 21, 2019

Los Angeles County - El Segundo City Underground Storage Tanks List:

[UST ELSEGUNDO](#)

List of registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County, made available by El Segundo City Fire Department.

Government Publication Date: Jan 17, 2017

Los Angeles County - Santa Monica City Underground Storage Tank List:

[UST SANTA MONICA](#)

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Monica made available by Santa Monica Fire Prevention Division.

Government Publication Date: Dec 3, 2020

Los Angeles County - Santa Monica City Aboveground Storage Tank List:

[AST SANTAMON](#)

List of registered Aboveground Storage Tanks (ASTs) made available by the Santa Monica Fire Department in the City of Santa Monica of Los Angeles County, California.

Government Publication Date: Jan 14, 2022

Los Angeles County - Santa Monica City CUPA Facilities List:

[CUPA SANTAMON](#)

The Santa Monica Fire Department's office maintains a list of CUPA Facilities located in Santa Monica city.

Government Publication Date: Jan 14, 2022

Los Angeles County - Torrance City Underground Storage Tanks:

[UST TORRANCE](#)

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Apr 20, 2022

Los Angeles County - Vernon City UST List:

[UST VERNON](#)

A list of Underground Storage Tanks (UST) in Vernon City provided by the Vernon City Fire Department.

Government Publication Date: Aug 25, 2022

Los Angeles County - Vernon City CUPA List:

[CUPA VERNON](#)

The Vernon City Fire Department's office maintains a list of CUPA Facilities located in Vernon city.

Government Publication Date: Aug 25, 2022

Los Angeles County - City of Los Angeles UST List:

[UST LA CITY](#)

A list of active and inactive underground storage tank facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Nov 1, 2022

Los Angeles County - City of Los Angeles AST List:

[AST LA CITY](#)

A list of active and inactive above ground petroleum storage tanks made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Los Angeles County - City of Los Angeles Hazardous Materials Facilities:

[HAZMAT LA CITY](#)

A list of active and inactive hazardous materials facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Orange County - Industrial Cleanup Program Cases Listing:

[ICP ORANGE](#)

Orange County Health Care Agency's Environmental Health Division has an Industrial Cleanup (IC) program which oversees the voluntary cleanup of contaminated property. This is a list of cases (by city) which the IC program has overseen in the past, or is currently overseeing.

Government Publication Date: May 24, 2022

Orange County - LOP Lead Cases List:

[LOP ORANGE](#)

The Local Oversight Program of the County of Orange provides regulatory cleanup oversight for cleanup of leaking underground storage tanks (USTs). This dataset is provided by the Orange County Health Care Agency.

Government Publication Date: May 24, 2022

Orange County - Non-Petroleum Underground Storage Tank Cases:

[NPUT ORANGE](#)

This list of open and closed non-petroleum underground storage tank cases is maintained by the Orange County Health Care Agency.

Government Publication Date: May 24, 2022

Orange County - Underground Storage Tanks Listing:

[UST ORANGE](#)

A list of registered Underground Storage Tank (UST) sites in Orange County. This list is made available by Orange County Health Care Agency (OCHCA), Environmental Health Division which oversees the underground storage tank inspection program in most of the cities of Orange County, with the exception of Anaheim, Fullerton, and Orange.

Government Publication Date: May 24, 2022

Orange County - Aboveground Petroleum Storage Tank Listing:

[AST ORANGE](#)

A list of Aboveground Petroleum Storage Tank (APST) facilities inspected by Orange County Certified Unified Program Agency (CUPA) Under the Aboveground Petroleum Storage Act (APSA). This list is made available by the Environmental Health Division of Orange County Health Care Agency.

Government Publication Date: May 24, 2022

Orange County - Anaheim City UST Cleanup Cases:

[UST CLP ANAHEIM](#)

A list of UST Cleanup Cases in the City of Anaheim in Orange County. As part of its Groundwater Protection Program, the City of Anaheim managed the UST Cleanup Oversight Program from April 1991 to June 2014. This list is published by the City of Anaheim Underground Storage Tank Cleanup Program.

Government Publication Date: May 26, 2015

Orange County - Anaheim City UST List:

[UST ANAHEIM](#)

A list of Underground Storage Tanks in Anaheim City, Orange County. This list is made available by Anaheim Fire & Rescue Department.

Government Publication Date: Aug 17, 2022

Orange County - Anaheim City AST List:

[AST ANAHEIM](#)

List of Aboveground Storage Tanks (ASTs) in Anaheim City, Orange County made available by Anaheim Fire & Rescue.

Government Publication Date: Aug 17, 2022

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases:

PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites:

PFAS NPL

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Oct 4, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality:

PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

SSEHRI PFAS Contamination Sites:

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current information <https://pfasproject.com/pfas-contamination-site-tracker/>

Government Publication Date: Dec 12, 2019

National Response Center PFAS Spills:

ERNS PFAS

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

Government Publication Date: Feb 23, 2022

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Aug 30, 2022

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:

[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

[PRP](#)

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Sep 28, 2022

State Coalition for Remediation of Drycleaners Listing:

[SCRD DRYCLEANER](#)

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRCD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

[ICIS](#)

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

Government Publication Date: Oct 15, 2022

Drycleaner Facilities:

[FED DRYCLEANERS](#)

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jun 25, 2022

Delisted Drycleaner Facilities:

[DELISTED FED DRY](#)

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jun 25, 2022

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Aug 3, 2022

Surface Mining Control and Reclamation Act Sites:

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Aug 18, 2022

Mineral Resource Data System:

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

DOE Legacy Management Sites:

URANIUM

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Jun 21, 2022

Alternative Fueling Stations:

ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG) fuel type locations.

Government Publication Date: Oct 10, 2022

Superfunds Consent Decrees:

CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Sep 15, 2022

Air Facility System:

AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

Polychlorinated Biphenyl (PCB) Transformers:

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jul 28, 2022

State

Dry Cleaning Facilities:

[DRYCLEANERS](#)

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners:

[DELISTED DRYCLEANERS](#)

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Feb 28, 2020

Non-Toxic Dry Cleaning Incentive Program:

[DRYC GRANT](#)

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2020

Per- and Polyfluoroalkyl Substances (PFAS):

[PFAS](#)

List of FAA Part 139 Airports, Selected Landfills, and Chrome Plating Facilities from California Water Boards PFAS Investigations, as well as sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Feb 15, 2022

PFOA/PFOS Groundwater:

[PFAS GW](#)

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Aug 27, 2022

Hazardous Waste and Substances Site List - Site Cleanup:

[HWSS CLEANUP](#)

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: May 20, 2021

Toxic Pit Cleanup Act Sites:

[TOXIC PITS](#)

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is no longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action:

[DTSC HWF](#)

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement:

[INSP COMP ENF](#)

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Apr 29, 2021

School Property Evaluation Program Sites:

[SCH](#)

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Oct 17, 2022

California Hazardous Material Incident Report System (CHMIRS):

[CHMIRS](#)

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Aug 15, 2022

Historical California Hazardous Material Incident Report System (CHMIRS):

[HIST CHMIRS](#)

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Handlers from Hazardous Waste Manifest Data:

[HAZNET](#)

A list of handlers not otherwise classified as Treatment, Storage, Disposal facilities (TSDF) or generators from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Oct 24, 2016

Generators from Hazardous Waste Manifest Data:

[HAZ GEN](#)

List of handlers listed as having generated waste from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

TSDF from Hazardous Waste Manifest Data:

[HAZ TSD](#)

List of Treatment, Storage, and Disposal Facilities (TSDFs) from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

Historical Hazardous Waste Manifest Data:

[HIST MANIFEST](#)

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters:

[HW TRANSPORT](#)

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Sep 6, 2022

Registered Waste Tire Haulers:

[WASTE TIRE](#)

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Oct 11, 2022

California Medical Waste Management Program Facility List:

[MEDICAL WASTE](#)

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Oct 31, 2022

Historical Cortese List:

[HIST CORTESE](#)

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders:

[CDO/CAO](#)

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites:

[CERS HAZ](#)

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Oct 7, 2022

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites:

[DELISTED HAZ](#)

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker:

[GEOTRACKER](#)

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Jul 25, 2022

Mines Listing:

[MINE](#)

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Jun 23, 2022

Recorded Environmental Cleanup Liens:

[LIEN](#)

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Aug 3, 2022

Waste Discharge Requirements:

[WASTE DISCHG](#)

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Jul 25, 2022

Toxic Pollutant Emissions Facilities:

[EMISSIONS](#)

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2020

Clandestine Drug Lab Sites:

[CDL](#)

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/ clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County - Santa Monica City Hazardous Materials Facilities:

[HAZMAT SANTAMON](#)

A list of Hazardous Materials Facilities in the City of Santa Monica, Los Angeles county. This list is made available by Santa Monica Fire Prevention Division which has been designated as the CUPA for the City.

Government Publication Date: Dec 17, 2021

Los Angeles County - Santa Monica City Hazardous Waste Facilities:

[HAZ WST SANTAMON](#)

A list of Hazardous Waste Facilities in Los Angeles County, City of Santa Monica. This list is made available by Santa Monica Fire Prevention Division.

Government Publication Date: Jan 14, 2022

Orange County - Hazardous Waste Facilities:

[HW ORANGE](#)

A list of Hazardous Waste Facilities in Orange County. This list is made available by Orange County Environmental Health Department.

Government Publication Date: May 24, 2022

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX F

Noise and Vibration Technical Memorandum

LADWP Haynes Generating Station Recycled Water Pipeline Project

December 22, 2023

**Long Beach Utilities Department/
Los Angeles Department of Water and Power
Haynes Generating Station Recycled Water
Pipeline Project**

**Noise and Vibration
Technical Memorandum**

December 22, 2023

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- Appendix A: Noise Monitoring Data Sheets
- Appendix B: Roadway Construction Noise Model Results

ACRONYMS AND DEFINITIONS

AASHTO	American Association of State Highway and Transportation Officials
CALTRANS	California Department of Transportation
CEQA	California Environmental Quality Act
CML&EC	cement mortar-lined and epoxy-coated
D	distance from the equipment to the receiver
dB	decibel
dBA	A-weighted decibel
DR	dimension ratio
ft	feet
HDPE	high-density polyethylene
HGS	Haynes Generating Station
Hz	hertz
I-405	Interstate 405
in	inch
in/sec	inch(es) per second
km/hr	kilometers per hour
LADWP	Los Angeles Department of Water and Power
L _{dn}	day-night average sound level
L _{eq}	equivalent noise level
LBUD	Long Beach Utilities Department
L _{max}	maximum a-weighted sound level
L _{min}	minimum a-weighted sound level
L _x	noise level that is exceeded x percent of the time
m	meter
MON	Monitoring Number
mph	miles per hour
PPV	peak particle velocity
PPV _{distance}	peak particle velocity in inches/second of the equipment adjusted for distance
PPV _{ref}	reference vibration level in inches/second at 25 feet
RW	right-of-way
SR 22	State Route 22
VdB	vibration level decibel
WSP	welded steel pipe

1 INTRODUCTION

This Noise and Vibration Technical Memorandum has been prepared to analyze the noise and vibration impacts from construction and operation of the proposed Long Beach Utilities Department (LBUD)/Los Angeles Department of Water and Power (LADWP) Haynes Generating Station (HGS) Recycled Water (RW) Pipeline Project (hereafter referred to as “Project”).

In this analysis, the following information is provided for the Project: project description; physical setting of the project study area; the regulatory framework for noise and vibration; monitoring data on existing noise environment and evaluation of potential noise and vibration impacts associated with Project construction and operation; and recommended mitigation measures to reduce noise impacts to the extent feasible.

2 PROJECT LOCATION AND DESCRIPTION

2.1 Project Location

The Project is located southwest of Interstate 405 (I-405) and north of State Route 22 (SR 22) in the southeastern portion of Long Beach, Los Angeles County and the western portion of Seal Beach, Orange County (Figure 1). The Project site encompasses the following roadways: Atherton Street, Studebaker Frontage Road, Studebaker Road, Studebaker Access Road / SR 22 off-ramp, College Park Drive, and SR 22 (Figure 2).

2.2 Project Description

The Project would be constructed within previously disturbed areas supporting numerous existing structures and subsurface utilities, City and State roadways, and associated surface improvements (i.e., paving, landscaping, and above-ground utilities).

The purpose of the Project is to install an RW main to serve LADWP’s Haynes Generating Station located in the City of Long Beach, California. The Project would provide recycled water to the Haynes Generating Station to meet the needs of the future cooling process and to maximize the use of RW supply.

The Project would include construction of a contiguous RW pipeline composed of six segments of 12- to 24-inch (in) high-density polyethylene (HDPE) as described below and as depicted in Figure 3 (Carollo, 2022):

- Construction – new RW pipelines

A total of six new RW pipeline segments would be constructed within existing roadway right-of-way as follows:

- Within the City of Long Beach, a total of 1.30 miles of RW pipeline would be installed:
 - Segment RW 1-11. This segment would start at the connection with the existing LBUD RW supply pipeline located just immediately west of the intersection of Atherton Street and Studebaker Road. This segment would be constructed south from the intersection within the Studebaker Frontage Road until the road ends in a cul-de-sac (near E Anaheim Road) within the City of Long Beach.
 - Approximately 22 linear feet (ft) of 12-in HDPE Class dimension ratio (DR) 17 pipe, beginning at an existing LBUD 21-in diameter RW pipe within Atherton Street, and terminating within the sidewalk on the southwest corner of Atherton Street and Studebaker Frontage Road within the road’s right-of-way.
 - Approximately 2,712 linear ft of 24-in HDPE Class DR 17 pipe, beginning at the sidewalk of Atherton Street and Studebaker Frontage Road within the road’s right-of-way, and continuing south along the Studebaker Frontage Road to approximately E Anaheim Road.
 - Segment RW 1-10. This segment would begin at the end of Segment RW 1-11, where Studebaker Frontage Road ends in a cul-de-sac (near E Anaheim Road), and would be constructed within the road’s

right-of-way, then would continue within Studebaker Road to the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp within the City of Long Beach.

- Approximately 1,440 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
- Segment RW 1-12. This segment would begin at the end of Segment RW 1-10, near the intersection of College Park Drive and Studebaker Access Road / SR 22 off-ramp and would be constructed within the existing Studebaker Access Road / SR 22 off-ramp ROW to near the intersection of Salida Avenue and College Park Drive within the City of Long Beach.
 - Approximately 1,356 linear ft of 24-in HDPE Class DR 17 pipe would be constructed.
- Segment RW 1-13. This segment would begin at the end of segment RW 1-12, near the intersection of Salida Avenue and College Park Drive, and would be constructed within College Park Drive to the west side of the College Park Drive bridge within the City of Long Beach.
 - Approximately 980 linear ft of 16-in HDPE Class DR 17 pipe would be constructed.
- Within the City of Long Beach and the City of Seal Beach:
 - Segment RW 1-14. This segment would begin at the end of segment RW 1-13, on the west side of the College Park Drive bridge, and would be attached to the north side of the College Park Drive bridge structure adjacent to existing water utilities within the City of Long Beach and the City of Seal Beach.
 - Approximately 337 linear ft of 16-in cement mortar-lined and epoxy-coated (CML&EC) welded steel pipe (WSP) would be attached to the bridge.
- Within the City of Seal Beach, a total of 0.15 miles of RW pipeline would be installed:
 - Segment RW 1-15. This segment would begin at the end of segment RW 1-14, on the east side of the College Park Drive bridge, and would be constructed within an existing paved access road and within College Park Drive, then continue south underneath SR 22 and SR 22 right-of-way to the tie-in on the HGS property within the City of Seal Beach.
 - Approximately 806 linear ft of 16-in HDPE Class DR 17 pipe would be constructed. Of the 806 linear ft, 249 linear ft of pipe would be placed within a 36-in micro-tunnel steel casing. The steel casing would be installed within a new tunnel (36-in diameter and 249 ft long) underneath SR 22. The steel casing would be installed at a depth of approximately 22-32 ft below existing ground (due to the variation in SR 22 elevation) and would require a pit to be dug on either side of SR 22. The receiving pit, dug on the north side of SR 22, would be 20 ft by 36 ft and dug at a depth of 22 ft below existing ground. The launch pit/jacking pit, dug on the south side of SR 22, would be 40 ft by 36 ft and dug at a depth of 21 ft below existing ground.

3 NOISE BASICS AND TERMINOLOGY

Sound is a vibratory disturbance created by a moving or vibrating source that is capable of being detected. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired and may, therefore, be classified as a more specific group of sounds. The effects of noise on people can include general annoyance; interference with speech communication; sleep disturbance; and, in the extreme, hearing impairment.

3.1 Decibels and Frequency

In its most basic form, a continuous sound can be described by its frequency or wavelength (pitch) and its amplitude (loudness). Frequency is expressed in cycles per second, or hertz.

Frequencies are heard as the pitch or tone of sound. High-pitched sounds produce high frequencies; low-pitched sounds produce low frequencies. Sound pressure levels are described in units called the decibel (dB).

Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. For example, a doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; a halving of the energy would result in a 3 dB decrease.

Figure 1 – Regional Location Map



Sources: CALTRANS NHS (2022); CALTRANS Tiger Lines (2019); ESRI World Hillshade (2021).
 Alignment Source: Carollo, Preliminary Design Report: Updated Figure 2 (2022).

AZTEC **TYPSA**

— Interstate	— Watercourse	City of Long Beach
— Local Roads	— Project Alignment	City of Seal Beach
□ County Boundary		City of Los Alamitos
		Rossmoor

Map Disclaimer: This map is intended for general siting purposes only.

Miles
 0 0.25 0.5

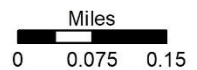
Figure 2 – Project Location Map



Sources: CALTRANS NHS (2013); CALTRANS Tiger Lines (2019); ESRI World Imagery (2021).
 Alignment Source: Carollo, Preliminary Design Report: Updated Figure 2 (2022).

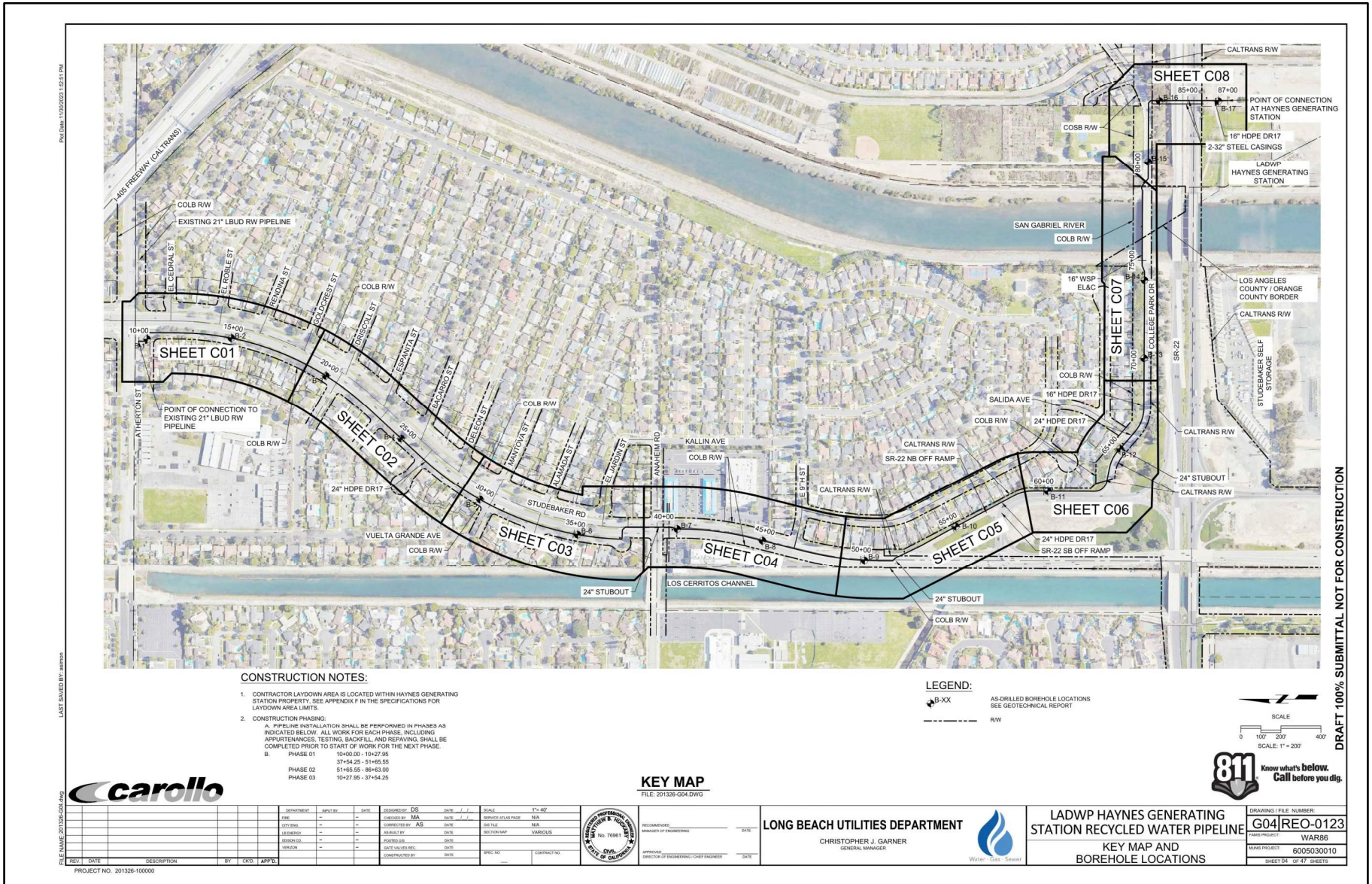


- Mileposts
- State Highway
- Interstate
- Project Alignment



Map Disclaimer: This map is intended for general siting purposes only.

Figure 3 – Proposed Pipeline Alignment – Index Sheet



Source: Draft 100% Design Plans (Carollo, 2022a)

3.2 Perception of Noise and A-Weighting

A typical noise environment consists of a base of steady “background” noise that is the sum of many distant and indistinguishable noise sources. Superimposed on this background noise is the sound from individual local sources. The local sources can vary from an occasional aircraft or train passing by, to intermittent periods of sound (such as amplified music), and to virtually continuous noise. An example of sound from a local source is the noise generated by traffic on a major highway.

The human ear is not equally sensitive to all frequencies within the sound spectrum. To accommodate this phenomenon, the A-scale, which approximates the frequency response of the average young ear when listening to most ordinary everyday sounds, was devised. When people make relative judgments of the loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Therefore, the “A-weighted” noise scale is used for measurements and standards involving the human perception of noise.

Noise levels using A-weighted measurements are written dB(A) or dBA. The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at 3 feet is approximately 60 dBA, while loud jet engine noises equate to 110 dBA, which can cause serious discomfort. Table 1 shows the relationship of various noise levels to commonly experienced noise events.

Human perception of noise has no simple correlation with acoustical energy. Due to subjective thresholds of tolerance, the annoyance of a given noise source is perceived very differently from person to person. Two noise sources do not “sound twice as loud” as one source. As stated above, a doubling of noise sources results in a noise level increase of 3 dBA. It is widely accepted that (1) the average healthy ear can barely perceive changes of a 3 dBA increase or decrease; (2) a change of 5 dBA is readily perceptible; and (3) an increase (decrease) of 10 dBA sounds twice (half) as loud (California Department of Transportation [CALTRANS], 2013a).

In community situations, noise exposure and changes in noise levels occur over a number of years, unlike the immediate comparison made in a field study situation. The generally accepted level at which a change in community noise levels becomes “barely perceptible” typically occurs at values greater than 3 dBA. Changes of 5 dBA are defined as “readily perceptible” and 10 dBA is considered twice as loud.

Table 1. Typical Noise Levels for Common Events

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet Fly-over at 300 m (1,000 ft)	100	
Gas Lawn Mower at 1 m (3 ft)	90	
Diesel Truck at 15 m (50 ft) at 80 km/hr (50 mph)	80	Food Blender at 1 m (3 ft); Garbage Disposal at 1 m (3 ft)
Noisy Urban Area, Daytime Gas Lawn Mower at 30 m (100 ft)	70	Vacuum Cleaner at 3 m (10 ft)
Commercial Area, Heavy Traffic at 90 m (300 ft)	60	Normal Speech at 1 m (3 ft)
Quiet Urban Daytime	50	Large Business Office, Dishwasher in Next Room

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing
Notes: dBA: A-weighted decibels; m: meter; ft: feet; km/hr: kilometers per hour; mph: miles per hour Source: CALTRANS, 2013a.		

3.3 Noise Propagation

From the source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise level as the distance from the source increases. The manner in which noise reduces with distance depends on many factors.

Geometric Spreading from Point and Line Sources: Sound from a small, localized source (approximating a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates or drops off at a rate of 6 dBA for each doubling of distance (i.e., if the noise level is 70 dBA at 25 feet, it is 64 dBA at 50 feet) for point sources. The movement of the vehicles makes the source of the sound appear to emanate from a line (line source) rather than a point when viewed over some time interval. The sound level attenuates or drops off at a rate of 3 dBA per doubling of distance for line sources.

Ground Absorption: To account for ground-effect attenuation (absorption), two types of site conditions are commonly used in noise prediction: hard site and soft site conditions. Hard sites (i.e., sites with a reflective surface between the source and the receiver, such as parking lots or smooth bodies of water) receive no excess ground attenuation, and the changes in noise levels with distance (drop-off rate) are simply the geometric spreading of the source. Soft sites are sites that have an absorptive ground surface (e.g., soft dirt, grass, or scattered bushes and trees) and receive an excess ground attenuation value of 1.5dBA per doubling of distance.

Atmospheric Effects: Wind speed will bend the path of sound to “focus” it on the downwind side and make a “shadow” on the upwind side of the source. At short distances, the wind has a minor influence on the measured sound level. For longer distances, the wind effect becomes appreciably greater. Temperature gradients create effects similar to those of wind gradients, except that they are uniform in all directions from the source. On a sunny day with no wind, temperature decreases with altitude, giving a shadow effect for sound. On a clear night, temperature may increase with altitude, focusing sound on the ground surface.

Shielding by Natural and Man-Made Features, Noise Barriers, Diffraction, and Reflection: A large object in the path between a noise source and a receiver can significantly attenuate noise levels at that receiver location. The amount of attenuation provided by this “shielding” depends on the size of the object and the frequencies of the noise levels. Natural terrain features (e.g., hills and dense woods) and man-made features (e.g., buildings and walls) can significantly alter noise levels. For a noise barrier to work, it must be high enough and long enough to block the view from the receiver to a road or to the noise source. Effective noise barriers can reduce noise levels by up to 15 dBA.

3.4 Noise Descriptors

Several rating scales (or noise “metrics”) exist to analyze effects of noise on a community. These scales include the equivalent noise level (L_{eq}), the community noise equivalent level, and the day-night average sound level (Ldn). Average noise levels over a period of minutes or hours are usually expressed as dBA L_{eq} , which is the equivalent noise level for the designated period of time. The period of time averaging may be specified; $L_{eq}(3)$ would represent a three-hour average. When no period is specified, a one-hour average is assumed. It is important to understand that noise of short duration (i.e., substantially less than the time averaging period) is averaged into ambient noise during the period of interest. Thus, a loud noise lasting many seconds or a few minutes may have minimal effect on the measured sound level averaged over a one-hour period.

Several statistical descriptors are also often used to describe noise, including L_{max} , L_{min} , and L_x . The highest and lowest A-weighted sound levels that occur during a noise event are L_{max} and L_{min} respectively. The statistical descriptor L_x signifies the noise level that is exceeded x percent of the time; for example, L_{10} denotes the A-weighted sound level that was exceeded 10 percent of the time.

When the noise level of specific noise source is described by the **sound pressure level** in decibels (dB), as discussed in Section 3.1, a distance is required as is the decibel level to a complete noise-level description. For example, the noise level of a motor may be 75 dBA at a distance of 7 meters.

Other descriptors may be used to describe a noise source and are used in this analysis. **Sound power level** is typically used to describe air conditioner noise levels. Sound power describes the total sound energy emitted by a source, also in decibels; sound power does not change with distance. **Sones** are typically used to describe fan noise. The sone is a measure of loudness and was developed based on human judgment of relative loudness.

4 VIBRATION BASICS AND TERMINOLOGY

Vibration is the periodic movement of mass over time. Vibration generated by construction activity has the potential to damage structures. This damage could be structural damage (e.g., cracking of floor slabs, foundations, columns, beams, or walls) or cosmetic architectural damage (e.g., cracked plaster, stucco, or tile).

Ground vibration can be annoying to people. The primary effect of perceptible vibration is often a concern. However, secondary effects, such as the rattling of a china cabinet, can also occur, even when vibration levels are well below perception. Any effect (primary perceptible vibration, secondary effects, or a combination of the two) can lead to annoyance. The degree to which a person is annoyed depends on the activity in which they are participating at the time of the disturbance. For example, someone sleeping or reading will be more sensitive than someone who is running on a treadmill. Reoccurring primary and secondary vibration effects often lead people to believe that the vibration is damaging their home, although vibration levels are well below minimum thresholds for damage potential (CALTRANS, 2013b).

4.1 Vibration Descriptors

Vibration is described in terms of frequency and amplitude. The frequency of a vibrating object describes how rapidly it is oscillating. The number of cycles per second of oscillation is the vibration frequency, which is described in terms of hertz (Hz). The normal frequency range of most ground-borne vibration that can be felt generally starts from a low frequency of less than 1 Hz to a high of about 200 Hz.

While, unlike sound, there is no standard way of measuring and reporting amplitude, the peak particle velocity (ppv) is defined as the maximum instantaneous positive or negative peak of the vibration signal, usually measured in inches per second (in/sec). Since it is related to the stresses that are experienced by buildings, ppv is often used in monitoring blasting vibration and the vibration of heavy construction equipment

Vibration levels are usually expressed as a single-number measure of vibration magnitude, in terms of velocity or acceleration, that describes the severity of the vibration without the frequency variable. Vibration is also described in decibel units, written as VdB to distinguish vibration level decibels from noise level decibels.

4.2 Vibration Propagation

Vibration energy spreads out as it travels through the ground, causing the vibration level to diminish with distance away from the source. High-frequency vibrations reduce much more rapidly than low frequencies; therefore, low frequencies tend to dominate the spectrum at large distances from the source. Discontinuities in the soil strata can also cause diffractions or channeling effects that affect the propagation of vibration over long distances.

When vibration encounters a building, a ground-to-foundation coupling loss will usually reduce the overall vibration level. However, under certain circumstances, the ground-to-foundation coupling may also amplify the vibration level due to structural resonances of the floors and walls.

4.3 Vibration Sources and Responses

Construction vibration is generally associated with pile driving and rock blasting. However, large bulldozers, vibratory compactors, and loaded trucks can cause perceptible vibration levels at close proximity.

Long-term vibration in environmental analysis is usually associated with rail and transit operations but can also occur with some machinery applications.

5 REGULATORY SETTING

This section provides an overview of the City of Long Beach and City of Seal Beach regulations related to noise issues applicable to the project.

No maximum vibration levels are listed in the City of Long Beach and City of Seal Beach regulations. In the absence of city regulations, CALTRANS and American Association of State Highway and Transportation Officials (AASHTO) criteria are included in this section and used as the basis for acceptable levels of ground-borne vibration.

5.1 City of Long Beach Noise Standards

5.1.1 Noise Element of the General Plan

The goals and policies contained in the City of Long Beach General Plan Noise Element address noise in relation to land use planning, the noise environment, transportation noise, construction and industrial noise, population and housing noise, and public health and safety (City of Long Beach, 2023). The criteria for sensitive receivers are summarized in Table 2.

Table 2. Recommended Criteria for Maximum Acceptable Noise Levels

Major Land Use Type	Outdoor			Indoor
	Maximum Single Hourly Peak	L10 ¹	L50 ²	Ldn
Residential (7 a.m. to 10 p.m.)	70	55	45	45
Residential (10 p.m. to 7 a.m.)	60	45	35	35
Commercial (anytime)	75	65	55	—
Industrial (anytime)	85	70	60	—

Notes:
¹ L10=noise level exceeded 10 percent of the time during a stated period.
² L50=median noise level

5.1.2 Municipal Code

The City of Long Beach Municipal Code (Section 8.80) regulates the generation of noise and vibration within the City of Long Beach. The Municipal Code also exempts certain construction activities that occur within the city’s limits. Specifically, Section 8.80.330 states:

“The provision of this Chapter shall not apply to construction maintenance and repair operations conducted by public agencies and/or utility companies or their contractors which are deemed necessary to serve the best interests of the public and to protect the public health, welfare and safety, including electrical services, repairing traffic signals, unplugging sewers, vacuuming catch basins repairing of damaged poles, removal of abandoned vehicles, repairing of water hydrants and mains, gas lines, oil lines, sewers, storm drains, roads, sidewalks, etc.”

Therefore, Project construction activities would be exempt from the City of Long Beach Municipal Code requirements.

In addition, Section 8.80 of the City of Long Beach Municipal Code also establishes exterior and interior noise restrictions for the generation of sound within the City of Long Beach. The maximum noise levels vary based on the receiving land use type and the cumulative duration of noise.

Exterior Noise Restrictions

The City of Long Beach Municipal Code (Section 8.80.150) establishes exterior noise restrictions by receiving land use. The exterior noise restrictions are summarized in Table 3 and include the following:

“No person shall operate or cause to be operated any source of sound at any location within the incorporated limits of the city or allow the creation of any noise on property owned, leased, occupied, or otherwise controlled by such person, which causes the noise level when measured from any other property, either incorporated or unincorporated, to exceed:

1. The noise standard for that land use district as specified in Table 3 for a cumulative period of more than 30 minutes in any hour; or
2. The noise standard plus 5 decibels for a cumulative period of more than 15 minutes in any hour; or
3. The noise standard plus 10 decibels for a cumulative period of more than 5 minutes in any hour; or
4. The noise standard plus 15 decibels for a cumulative period of more than 1 minute in any hour; or
5. The noise standard plus 20 decibels or the maximum measured ambient, for any period of time.”

Table 3. City of Long Beach Exterior Noise Restrictions

Receiving Land Use District	Time Period	Noise Level (dBA)	L _{max} (dBA)
District One	Night (10 p.m. to 7 a.m.)	45	65
	Day (7 a.m. to 10 p.m.)	50	70
District Two	Night (10 p.m. to 7 a.m.)	55	75
	Day (7 a.m. to 10 p.m.)	60	80
District Three	Any time	65	85
District Four	Any time	70	90

District Five	Regulated by other agencies and laws
<p>Notes:</p> <p>District One: Predominantly residential with other land use types also present</p> <p>District Two: Predominantly commercial with other land use types also present</p> <p>District Three and Four: Predominantly industrial with other land use types also present District Five: Airports, freeways, and waterways regulated by other agencies</p> <p>District Three and Four limits are intended primarily for use at their boundaries rather than for noise control within those districts</p> <p>dBA=A-weighted decibel; L_{max}= maximum A-weighted sound level</p>	

Interior Noise Restrictions

The City of Long Beach Municipal Code (Section 8.80.170) establishes interior noise restrictions by receiving land use. The interior noise restrictions are summarized in Table 4 and include the following:

“No person shall operate, or cause to be operated, any source of sound indoors at any location within the incorporated limits of the city or allow the creation of any indoor noise which causes the noise level when measured inside the receiving dwelling unit to exceed:

1. The interior noise standard for that land use district, as specified in Table 4, for a cumulative period of more than 5 minutes in any hour; or
2. The interior noise standard plus 5 dBA for a cumulative period of more than 1 minute in any hour; or
3. The interior noise standard plus 10 dBA or the maximum measured ambient, for any period of time.”

If the measured indoor ambient level exceeds that permissible within any of the first two noise limit categories, the allowable noise exposure standard shall be increased in five decibel increments in each category as appropriate to reflect the indoor ambient noise level. In the event the indoor ambient noise level exceeds the third noise limit category, the maximum allowable indoor noise level under said category shall be increased to reflect the maximum indoor ambient noise level.”

Table 4. City of Long Beach Interior Noise Restrictions

Receiving Land Use District	Type of Land Use	Time Interval	Allowable Interior Noise Level (dBA)
All	Residential	10 p.m. to 7 a.m.	35
		7 a.m. to 10 p.m.	45
All	School	7 a.m. to 10 p.m. (while school is in session)	45
Hospital, designated quiet zones, and noise sensitive zones	—	Any time	40
<p>Notes:</p> <p>dBA=A-weight decibel</p>			

Construction Noise Restrictions

The City of Long Beach Municipal Code (Section 8.80.202) restricts construction activities to weekdays between 7:00 a.m. and 7:00 p.m. and Saturdays between 9:00 a.m. and 6:00 p.m., except for emergency work. Construction work

on Sundays is prohibited unless the City of Long Beach's Noise Control Officer issues a permit. The permit may allow work on Sundays between 9:00 a.m. and 6:00 p.m.

Loading and Unloading Noise Restrictions

The City of Long Beach Municipal Code (Section 8.80.200[E]) states that loading, unloading, opening, closing, or other handling of boxes, crates, containers, building materials, garbage cans, or similar objects between 10:00 p.m. and 7:00 a.m. is restricted to the noise level provisions shown in Table 3 and Table 4.

5.2 City of Seal Beach Noise Standards

5.2.1 Noise Element of the General Plan

The Seal Beach General Plan considers the most sensitive land use as residential development, with a typical noise exposure limit of up to 65 dBA. Applicable noise standards for construction noise and construction hours within City of Seal Beach limits are 7:00 a.m. to 8:00 p.m. Mondays through Fridays and 8:00 a.m. to 8:00 p.m. on Saturdays (City of Seal Beach, 2003).

5.2.2 Municipal Code

The City of Seal Beach Municipal Code (Section 7.15) regulates the generation of noise and vibration within the City of Seal Beach. The Municipal Code also exempts certain activities that occur within the city's limits. Specifically, Section 7.15.025[E] and [F]) exempts the following activities from the city's noise provisions:

- "E. Noise associated with construction, repair, remodeling or grading of real property performed in the following periods: between 7:00 a.m. and 8:00 PM on weekdays; and between 8:00 a.m. and 8:00 p.m. on Saturday. and never on Sundays or city observed federal holidays.
- F. Noise associated with real property maintenance performed in the following periods: between 7:00 a.m. and 8:00 p.m. on weekdays; between 8:00 a.m. and 8:00 p.m. on Saturday; and between 9:00 a.m. and 8:00 p.m. on Sunday or a holiday."

Therefore, Project construction activities are limited to the allowable time windows listed above.

In addition, Section 7.15 of the City of Seal Beach Municipal Code also establishes exterior and interior noise restrictions for the generation of sound within the City of Seal Beach. The maximum noise levels vary based on the receiving land use type and the cumulative duration of noise.

Exterior Noise Restrictions

The City of Seal Beach Municipal Code (Section 7.15.015) establishes exterior noise restrictions by receiving land use. The exterior noise restrictions are summarized in Table 5 and include the following:

"No person shall create any noise, or allow the creation of any noise, on property owned or occupied by such person when such noise causes the noise level to exceed the following when measured from a residential property:

1. The exterior noise standard for a cumulative period of more than 30 minutes in any hour; or
2. The exterior noise standard plus 5 dBA for a cumulative period of more than 15 minutes in any hour; or
3. The exterior noise standard plus 10 dBA for a cumulative period of more than 5 minutes in any hour; or
4. The exterior noise standard plus 15 dBA for a cumulative period of more than 1 minute in any hour; or
5. The exterior noise standard plus 20 dBA for any period of time.

In the event the ambient noise level exceeds any of the first four noise limit categories listed above, the cumulative period shall be increased to reflect that ambient level. In the event the ambient noise level exceeds the fifth noise limit category, the maximum allowable noise level shall be increased to reflect the maximum ambient noise level (City of Seal Beach Municipal Code, Section 7.15).”

Table 5. City of Seal Beach Exterior Noise Standards

Noise Zone	Time Period	Noise Level (dBA)
1	Day (7 a.m. to 10 p.m).	55
	Night (10 p.m. to 7 a.m.)	50
2	At any time	65
3	At any time	70
Notes: Noise Zone 1: Residential properties Noise Zone 2: Commercial properties Noise Zone 3: Industrial, manufacturing and oil properties dBA=A-weighted decibel		

Interior Noise Restrictions

The City of Seal Beach Municipal Code (Section 7.15.020) establishes interior noise restrictions by receiving land use. The interior noise restrictions are summarized in Table 6 and include the following:

“No person shall create any noise, or allow the creation of any noise, on property owned or occupied by such person when such noise causes the noise level to exceed the following when measured from another dwelling unit on residential property:

1. The interior noise standard for a cumulative period of more than 5 minutes in any hour; or
2. The interior noise standard plus 5 dBA for a cumulative period of more than 1 minute in any hour; or
3. The interior noise standard plus 10 dB or the maximum measured ambient, for any period of time.

In the event the ambient noise level exceeds either of the first 2 noise limit categories in subsection B, the cumulative period applicable to such category shall be increased to reflect that ambient level. In the event the ambient noise level exceeds the third noise limit category, the maximum allowable noise level under such category shall be increased to reflect the maximum ambient noise level.”

5.3 State and Federal Vibration Standards

5.3.1 Vibration Annoyance Standards

Ground-borne noise is the vibration of floors and walls that may cause rattling of items, such as windows or dishes on shelves, or a rumbling noise. The rumbling is created by the motion of the room surfaces, which act as a giant loudspeaker. CALTRANS provides criteria for acceptable ground-borne vibration levels based on the relative perception of a vibration event for vibration-sensitive land uses (Table 7).

Table 6. City of Seal Beach Interior Noise Restrictions

Noise Zone	Time Interval	Noise Level (dBA)
1	7 a.m. to 10 p.m.	55
	10 p.m. to 7 a.m.	50
Notes: dBA=A-weighted decibel		

Table 7. Human Response to Transient Vibration

Average Human Response	ppv (in/sec)
Severe	2.000
Strongly perceptible	0.900
Distinctly perceptible	0.240
Barely perceptible	0.035

Source: CALTRANS, 2013b

5.3.2 Vibration-related Structural Damage Standards

According to CALTRANS, the threshold for structural vibration damage for modern structures is 0.5 inches per second (in/sec) for intermittent sources, which include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment (CALTRANS, 2013b).

AASHTO (1990) identifies maximum vibration levels for preventing damage to structures from intermittent construction or maintenance activities for residential buildings in good repair with gypsum board walls to be 0.4 to 0.5 in/sec. The damage threshold criterion of 0.2 in/sec is appropriate for fragile buildings.

For the purpose of this analysis, because adjacent residences can be older and may be fragile, the 0.2 in/sec damage threshold for older fragile buildings is used as a very conservative evaluation criteria. Below 0.2 in/sec there is virtually no risk of building damage.

6 EXISTING NOISE ENVIRONMENT

6.1 Surrounding and Noise-Sensitive Land Uses

Certain land uses are considered more sensitive to noise than others. Examples of these types of land uses include residential areas, educational facilities, hospitals, childcare facilities, and senior housing.

In Long Beach, from the Studebaker Frontage Road to Anaheim Road, single family residences are located adjacent to the Project. South of Anaheim Road to E 9th Street commercial properties and parking lots are located adjacent to the Project on the east and west side of Studebaker Road. South of E 9th Street, single family residences are located adjacent to the Project on the eastern side of Studebaker Road, Studebaker Access Road / SR 22 off-ramp, and on the northern side of College Park Drive. The College Park Drive bridge crosses the San Gabriel River and into Seal Beach.

In Seal Beach, Edison Park is located north of College Park Drive east of College Park Drive bridge and west of the proposed tunnelling location under SR 11. South of the SR 22 ROW, the Project would be located within the HGS-owned industrial property.

The majority of the land use in the project area, within the City of Long Beach, is residential. The closest residences to the project site are the homes along the SR 22 off-ramp to Studebaker Road, approximately 15 feet from the residential privacy walls to the pipeline alignment.

Table 8. Guideline Vibration Damage Potential Threshold Criteria

Structure and Condition	Maximum ppv (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.20	0.10
Historic and some old buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial/commercial buildings	2.00	0.50
<p>Notes: ppv: peak particle velocity; in/sec: inch(es) per second. Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment. Source: CALTRANS, 2013b.</p>		

6.3.1 Noise Sources

The primary off-site noise sources in the project area, within the City of Long Beach and Seal Beach, include traffic on Studebaker Road, SR 22, and associated local streets. Other off-site sources include occasional aircraft overflights and typical residential noise (e.g., air conditioners and barking dogs). Background ambient noise is dominated by traffic noise sources.

6.2 Existing Noise Levels

Noise monitoring was conducted on January 11, 2023, at six different locations in the project area to document existing noise conditions. Each location was monitored for 15 minutes. Weather conditions (temperature, relative humidity, wind speed and direction, and sky condition) were documented. Five monitoring sites are located within the City of Long Beach and one monitoring site is located within the City of Seal Beach, as shown in Figure 4.

A Larson Davis LxT sound level meter, which complies with American National Standards Institute S1.4 and Type I Standards, was used to collect the sound measurements. The monitoring results are summarized in Table 9.

The monitored noise levels represent the existing baseline noise condition within the project area during daytime hours. The average ambient noise levels from the monitoring measurements ranged from 58 dBA to 74 dBA. The lowest monitored noise level was recorded from site MON-6 and the highest monitored noise level was recorded from site MON-3. Detailed noise level monitoring information is included in Appendix A of this report.

Figure 4 – Monitoring Site Locations



Basemap: GoogleEarth (Imagery Date: 10/8/2021)

Table 9. Noise Level Measures – Monitoring Results Summary

Monitor Number (MON)	Address/Description	Day/Time	Monitoring Result Leq, dBA
1	Sidewalk near residence at 1625 Studebaker Rd	Jan 11/ 9:09-9:24 AM	64
2	Sidewalk near residence at 1429 Studebaker Rd	Jan 11/ 9:32-9:47 AM	65
3	Sidewalk near residence at 6705 Anaheim Road	Jan 11/ 9:56-10:11 AM	74
4	Behind the backyard privacy wall near residence at 833 Lees Avenue	Jan 11/ 10:19-10:34 AM	69
5	Behind the backyard privacy wall near 6860 Septimo Street	Jan 11/ 10:45-11:00 AM	63
6	20 feet from the roadway in Edison Park	Jan 11/ 11:07-11:22 AM	58

6.3 Aircraft Noise

The closest public airport to the Project is Long Beach Airport (4100 Donald Douglas Dr, Long Beach), located approximately 2.5 miles northwest of the Project. There are no private airstrips, heliports, or helistops in the vicinity of the Project site. The Project construction and operation would not generate aircraft noise, nor would it result in persons (e.g., construction or operations crew members) being located in an area where they would be exposed to excessive aircraft noise levels.

7 IMPACT ANALYSIS

Potential noise sensitive receptors were selected for noise modeling of the residential areas, in Long Beach, and Edison Park, in Seal Beach.

High resolution aerial photography, Google Street view photos, and proposed site layouts were analyzed to determine the presence of potential noise sensitive receptors. No schools, childcare centers, medical centers, or other types of noise sensitive receptors were observed in the immediate project vicinity.

The selected noise sensitive receptors to be modeled as noise receivers in the noise model are shown in Figure 5.

Figure 5 – Sensitive Noise Receptors



Basemap: GoogleEarth (Imagery Date: 10/8/2021)

7.1 Analysis Methodology

Pipeline projects are considered “linear” projects as construction is within a specific area for a brief time period and moves as work continues along the alignment.

Construction noise levels would vary at any given sensitive receptor depending on the construction phase, equipment type, duration of use, distance between the noise source and receptor, and the presence or absence of noise barriers between the noise source and receptor. For this analysis, construction noise levels were estimated for proposed daytime construction without the presence of noise barriers (i.e., a conservative approach taken).

The nearby sensitive residential receptors would likely experience a temporary/periodic increase above ambient noise levels during construction of the linear project. Construction noise would be unavoidable, though the anticipated noise would be temporary and limited to the duration of the construction in any one location along the alignment. These temporary noise impacts would cease once construction of each pipeline section is completed and construction has moved to the next location along the alignment.

Quantitatively, the primary noise prediction equation is expressed as follows for the hourly average noise level (L_{eq}) at distance D between the source and receiver (dBA):

$$L_{eq} = L_{max} @ 50' - 20 \log (D/50') + 10 \log (U.F.\%/100) - I.L.(bar) \text{ Where:}$$

$L_{max} @ 50'$ is the published reference noise level at 50 feet

U.F.% is the usage factor for full power operation per hour I.L.(bar) is the insertion loss for intervening barriers

The SoundPLAN® computer noise model was used for calculating noise levels of the existing traffic noise from Studebaker Road and SR 22, as well as associated off-ramps. An industry standard, SoundPLAN® was developed by Braunstein + Berndt GmbH to provide estimates of sound levels at distances from specific noise sources while considering the effects of terrain features, including relative elevations of noise sources, receivers, and intervening objects, and ground effects due to areas of hard ground (pavement, water) and soft ground (grass, field, forest). In addition to computing sound levels at specific receiver positions, SoundPLAN® can produce noise contour graphics that show areas of equal and similar sound level.

7.2 Construction Noise Analysis

Project construction is expected to commence in June of 2025 and be completed in December of 2026. The noisiest phase of construction would be the pavement removal phase due to the potential simultaneous use of three pieces of construction equipment.

The project construction schedule, including duration and equipment inventory, is shown in Table 10.

Table 10. Construction Phase Breakdown and Equipment Inventory

Activity	Duration	Equipment	Quantity
Site Preparation	June 2025 – December 2026	Backhoe	1
		Excavator	1
Pavement Removal/Replacement	June 2025 – December 2026	Cold Planner	1
		Dump Truck	1
		Excavator	1
Pipeline Installation	June 2025 – December 2026	Backhoe	1
		Excavator	1
Paving	June 2025 – December 2026	Dump Truck	1
		Asphalt paver	1
		Roller-compactor	1

Typical construction equipment type that would be used and their maximum noise levels at 50 feet are shown in Table 11.

Roadway Construction Noise Model was used to predict construction noise levels. The predicted maximum and average construction noise levels for all selected sensitive receptors under the worst-case scenario are shown in Table 12. Detailed construction noise calculations are included in Appendix B of this report.

Table 11. Equipment Noise Emission Reference Levels and Usage Factors

Equipment Type	Acoustical Use Factor (%)	Typical Maximum Noise Levels at 50 feet (dBA)
Backhoe	40	80
Crane	16	85
Dozer	40	85
Excavator	40	85
Flat Bed Truck	40	84
Forklift	40	80
Front End Loader	40	80
Generator	50	82
Grader	40	85
Pickup Truck	40	55
Pile Driver	20	95
Roller	20	85
Scraper	40	85
Soil Mix Drill Rig	50	80
Tractor	40	84
Water Truck	40	80
Notes: Acoustical use factor is the ratio of the time that a piece of equipment is in use to the total time that it could be in use. Source: Federal Highway Administration (FHWA), 2006.		

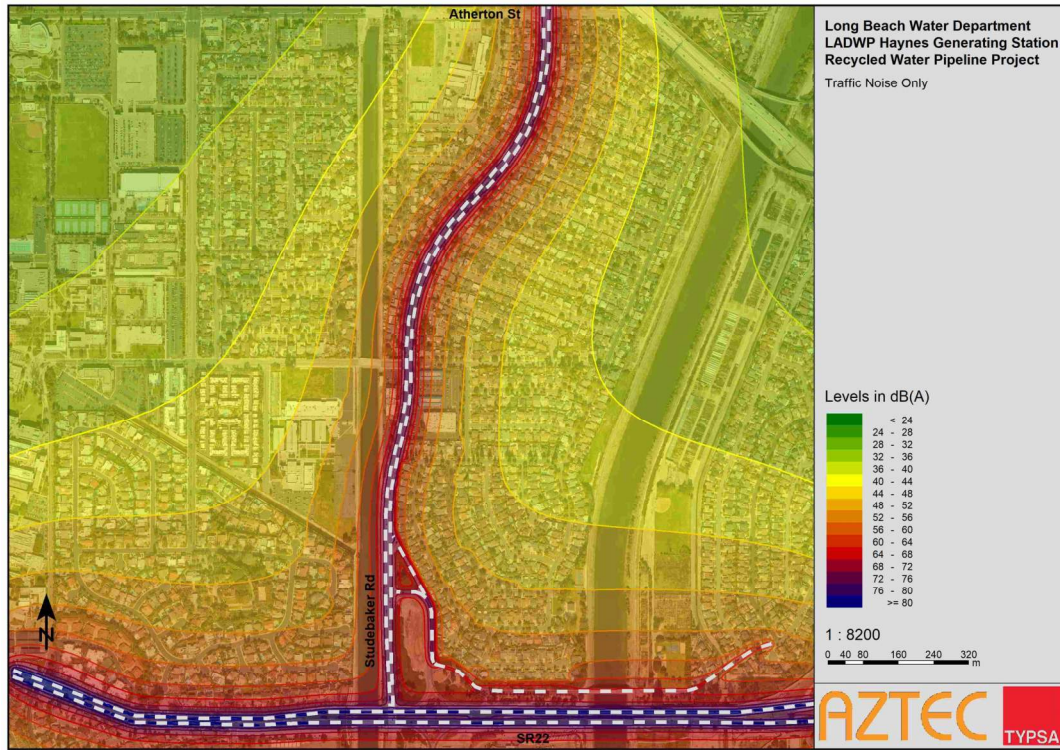
As can be seen, construction noise from the pavement removal phase would be the loudest, the L_{max} ranges from 72.5 dBA to 83.6 dBA, and the L_{eq} ranges from 70.8 dBA to 81.9 dBA for 11 modeled receivers. In addition, SoundPLAN® was used to calculate the existing traffic noise levels. The ambient noise within the project area is dominated by roadway traffic noise. The existing traffic noise contour map is provided in Figure 6 and noise level increases between the loudest construction phase and ambient traffic noise are shown in Table 13. Project construction would increase noise levels by 7.7 dBA to 20.0 dBA over existing ambient traffic noise.

To adhere to the City of Long Beach Municipal Code (Section 8.80.150), Project construction exterior noise levels were increased based on the measured ambient levels, shown in Table 13. Thus, the construction noise levels would be above exterior allowable noise levels by 5.8 dBA to 14.0 dBA depending on the locations of the receptors.

To limit construction noise impacts to sensitive uses, the mitigation measure (N-1) is proposed to maintain acceptable noise levels and is provided below. With implementation of these mitigation measures, the Project's construction noise impacts would be less than significant.

- N-1** Construction activities shall be limited to the hours of 7:00 a.m. and 7:00 p.m. on Monday through Friday. No construction shall be conducted on Saturdays, Sundays and City holidays unless otherwise approved by The Board of Water Commissioners of the City of Long Beach. If approved, construction activities on those days would be limited to the hours of 9:00 AM to 6:00 PM. All construction equipment shall use properly operating mufflers.

Figure 6 – Existing Traffic Noise Map



Basemap: GoogleEarth (Imagery Date: 10/8/2021)

Table 12. Construction Equipment Noise Levels

ID	Site Preparation		Pavement Removal		Pipeline Installation		Paving	
	L _{max}	L _{eq}	L _{max}	L _{eq}	L _{max}	L _{eq}	L _{max}	L _{eq}
R1	78.4	76.2	81.3	79.7	78.4	76.2	81.0	77.1
R2	70.3	68.1	73.2	71.6	70.3	68.1	72.9	69.0
R3	80.7	78.4	83.6	81.9	80.7	78.4	83.2	79.4
R4	69.6	67.3	72.5	70.8	69.6	67.3	72.1	68.2
R5	77.8	75.5	80.7	79.0	77.8	75.5	80.3	76.4
R6	79.1	76.9	82.0	80.3	79.1	76.9	81.6	77.8
R7	72.4	70.2	75.3	73.7	72.4	70.2	75.0	71.1
R8	75.8	73.6	78.7	77.0	75.8	73.6	78.3	74.5
R9	75.6	73.4	78.5	76.8	75.6	73.4	78.1	74.3
R10	69.6	67.3	72.5	70.8	69.6	67.3	72.1	68.2
R11	77.8	75.5	80.7	79.0	77.8	75.5	80.3	76.4

Table 13. Construction Noise Increase Over Allowable Noise Levels

ID	Pavement Removal		Traffic Noise	Allowable Noise levels	Noise Level Increase
	L _{max}	L _{eq}	L _{eq}	L _{eq}	L _{eq}
R1	81.3	79.7	62.6	65	14.7
R2	73.2	71.6	63.9	65	6.6
R3	83.6	81.9	63.6	65	16.9
R4	72.5	70.8	61.8	65	5.8
R5	80.7	79.0	62.9	65	14.0
R6	82.0	80.3	67.0	70	10.3
R7	75.3	73.7	63.0	65	8.7
R8	78.7	77.0	57.6	65	12.0
R9	78.5	76.8	56.8	65	11.8
R10	72.5	70.8	54.7	65	5.8
R11	80.7	79.0	60.8	65	14.0
Notes: When determining the allowable noise levels, a 6 dBA noise reduction was assumed for privacy walls.					

Within the City of Seal Beach’s Municipal Code, exterior and interior noise restrictions only apply to residential, commercial, and industrial properties. The Project would be constructed within ROW and near open space / recreation (i.e., Edison Park) land; thus, the noise provisions of the municipal code do not apply and construction noise levels would be within allowable exterior noise levels.

7.3 Construction Vibration Analysis

According to CALTRANS, the threshold for structural vibration damage for modern structures is 0.5 in/sec for intermittent sources, which include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment. The damage threshold criterion of 0.2 in/sec is appropriate for fragile buildings.

For the purpose of this analysis, because adjacent residences can be older, the 0.2 in/sec damage threshold for older fragile buildings is used as a very conservative evaluation criterion. Below this level, there is virtually no risk of building damage. Table 14 shows the predicted vibration levels generated by construction equipment.

Table 14. Estimated Vibration Levels During Construction

Equipment	PPV at 25 ft (in/sec)	PPV at 50 ft	PPV at 75 ft	PPV at 100 ft
Large bulldozer	0.089	0.031	0.017	0.011
Loaded trucks	0.076	0.027	0.015	0.010
Jackhammer	0.035	0.012	0.007	0.004
Small bulldozer	0.003	0.001	0.001	<0.001

Source: Federal Transit Administration, 2018.

The calculation to determine PPV at a given distance is:

$$PPV_{\text{distance}} = PPV_{\text{ref}} * (25/D)^{1.5}$$

Where:

PPV_{distance} = the peak particle velocity in inches/second of the equipment adjusted for distance, PPV_{ref} = the reference vibration level in inches/second at 25 feet, and D = the distance from the equipment to the receiver.

The nearest receptors to the Project would be the single-family homes along the SR 22 off-ramp to Studebaker Road, within the City of Long Beach. In terms of the classifications in Table 8, these structures are “older residential structures”. Therefore, the criterion for a significant impact for continuous/frequency intermittent sources is 0.3 ppv in/sec.

Similar to structural damage from vibration, there are no applicable standards within the City of Long Beach or the City of Seal Beach Municipal Codes for human annoyance from construction vibration. The CALTRANS vibration annoyance potential guideline thresholds are shown in Table 7. Based on the guidance in Table 7, the “distinctly perceptible” vibration level of 0.24 ppv in/sec is used in this analysis as the threshold for a potentially significant vibration impact for human annoyance.

The vibration level for a loaded truck at the closest receptor at a distance of 15 feet would be 0.16 ppv in/sec. The vibration level, therefore, would be below the criterion for a significant impact for continuous/frequency intermittent sources of 0.3 ppv in/sec. In addition, the vibration level would be below the criterion for annoyance of 0.24 ppv in/sec. Therefore, the construction vibration impact would be less than significant level.

7.4 Operation Noise and Vibration

During operation, the Project would not generate noise and vibration.

Noise and vibration from Project maintenance activities would not contribute noticeably to the nearest Project sensitive receptors as the maintenance activities are similar to the background traffic noise characteristics. As a result, noise and vibration impact during the Project’s operation would be less than significant.

8 CONCLUSION

The Project’s construction noise levels would be above allowable exterior noise levels by 5.8 to 19.0 dBA. Implementation of MM N-1 would minimize construction noise levels within the City of Long Beach, limit sensitive receptor (residential properties) exposure to construction noise to allowable times, and ensure compliance with the City of Long Beach noise ordinance. Thus, construction of the Project would result in less than significant impact to noise within the City of Long Beach with the mitigation measure incorporated.

The Project’s maintenance noise levels would be similar to ambient traffic noise; thus, maintenance would be a negligible increase in noise levels to sensitive receptors. The day/time restrictions within the City of Long Beach’s municipal code do not apply to construction maintenance and repair operations. Therefore, maintenance associated with the pipeline would comply with City of Long Beach noise ordinances.

The Project construction and operation vibration levels would be 0.16 ppv in/sec, which would be below AASHTO and Caltrans vibration thresholds for annoyance and significant impact for continuous/frequency intermittent sources. Thus, the operation of the Project would result in less than significant impact to vibration levels.

The City of Seal Beach’s municipal code exempts construction and maintenance related activities from the City of Seal Beach noise provisions, and the exterior and interior noise restrictions for the city only apply to residential, commercial, and industrial properties. The Project would be constructed within ROW and near open space / recreation (i.e., Edison Park) land; therefore, the noise provisions of the City of Seal Beach municipal code do not apply. However, implementation of MM N-1 would minimize construction noise levels within the City of Seal Beach

and limit sensitive receptor (Edison Park) exposure to construction noise to allowable times. Thus, construction of the Project would result in less than significant impact to noise within the City of Seal Beach with the mitigation measure incorporated.

The Project's maintenance noise levels would be similar to ambient traffic noise; thus, maintenance would be a negligible increase in noise levels to sensitive receptors. The Project's maintenance would occur within the day/time restrictions established within the City of Seal Beach's municipal code; therefore, maintenance associated with the pipeline would comply with City of Seal Beach noise ordinances.

The Project construction and operation vibration levels would be 0.16 ppv in/sec, which would be below AASHTO and Caltrans vibration thresholds for annoyance and significant impact for continuous/frequency intermittent sources. Thus, the operation of the Project would result in less than significant impact to vibration levels.

The closest public airport to the Project is Long Beach Airport (4100 Donald Douglas Dr, Long Beach), located approximately 2.5 miles northwest of the Project. There are no private airstrips, heliports, or helistops in the vicinity of the Project site. Additionally, Project construction and operation would not generate aircraft noise nor result in exposure of persons to excessive aircraft noise levels. Thus, construction and operation of the Project would result in no impact from aircraft noise levels.

9 REFERENCES

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- Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment Manual. Available at: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf, accessed January 10, 2023.

APPENDICES

APPENDIX A
Noise Monitoring Data Sheets

Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 1, (Lat/Long: 33.787102 -118.099746)

Sidewalk near residence at 1625 Studebaker Rd

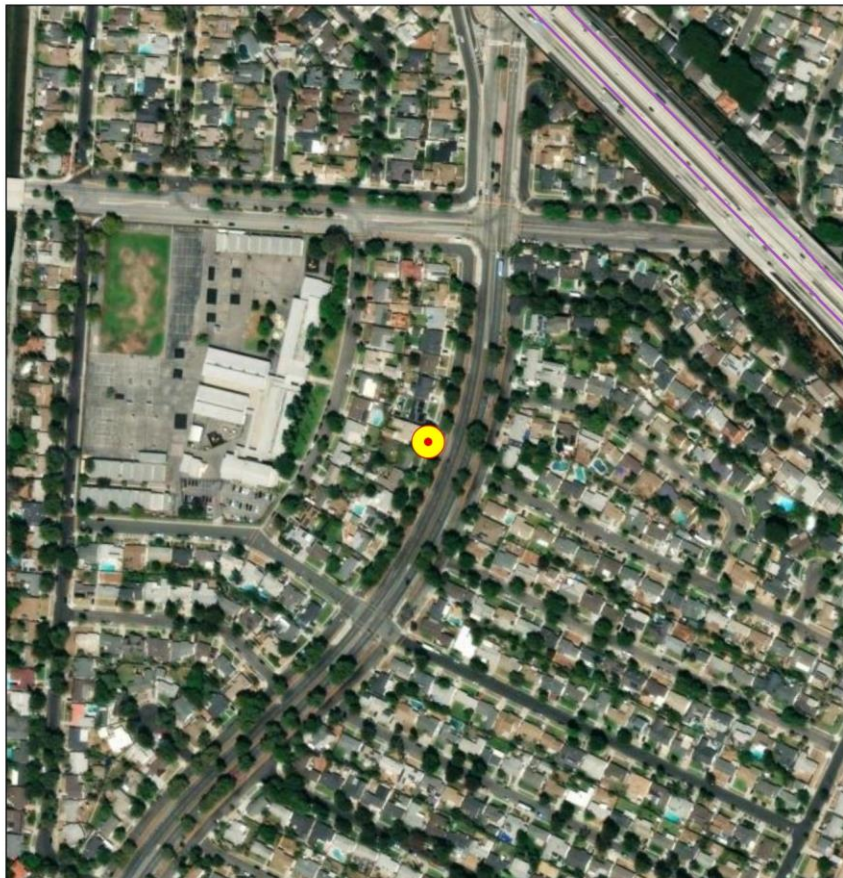
Prepared by/Crew: David Shu

Temperature: 51 °F Relative Humidity: 83 % Wind & Direction: 0 mph/Calm Sky: Cloudy

SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

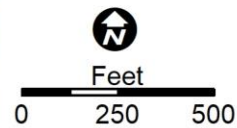
Calibration:

Posted Speed Limit (mph): 40 Observed Speed (mph): 40-45



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	9:09 AM	15 mins	54.7	64.1	74.6	---	---	---



Figure 1. Looking east



Figure 2. Looking south

Measurement Report

Report Summary

Meter's File Name	LxT_Data.012.s	Computer's File Name	LxTse_0006591-20230111 090932-LxT_Data.012.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User				Location
Job Description				
Note				
Start Time	2023-01-11 09:09:32	Duration	0:15:14.8	
End Time	2023-01-11 09:24:46	Run Time	0:15:01.4	Pause Time 0:00:13.4

Results

Overall Metrics

LA _{eq}	64.1 dB		
LAE	93.6 dB	SEA	--- dB
EA	254.7 μPa ² h		
LZ _{peak}	98.7 dB	2023-01-11 09:18:34	
LAS _{max}	74.6 dB	2023-01-11 09:18:34	
LAS _{min}	54.7 dB	2023-01-11 09:17:00	
LA _{eq}	64.1 dB		
LC _{eq}	72.6 dB	LC _{eq} - LA _{eq}	8.6 dB
LAI _{eq}	64.8 dB	LAI _{eq} - LA _{eq}	0.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
64.1 dB	64.1 dB	0.0 dB	
LDEN	LDay	LEve	LNight
64.1 dB	64.1 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	64.1 dB		72.6 dB		--- dB	
L _{S(max)}	74.6 dB	2023-01-11 09:18:34	--- dB		--- dB	
L _{S(min)}	54.7 dB	2023-01-11 09:17:00	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		98.7 dB	2023-01-11 09:18:34

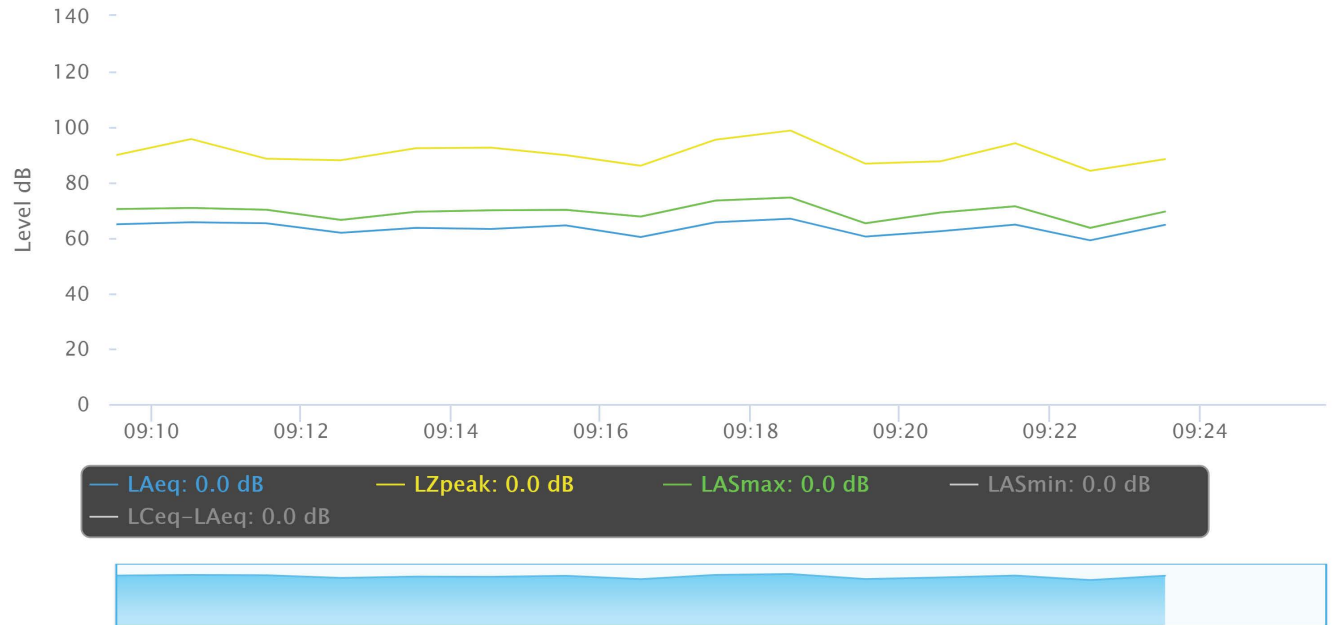
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	6	0:00:19.4

Statistics

LAS 5.0	69.1 dB
LAS 10.0	67.9 dB
LAS 33.3	64.0 dB
LAS 50.0	62.0 dB
LAS 66.6	59.4 dB
LAS 90.0	56.7 dB

Time History



Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 2, (Lat/Long: 33.785036 -118.101363)

Sidewalk near residence at 1429 Studebaker Rd

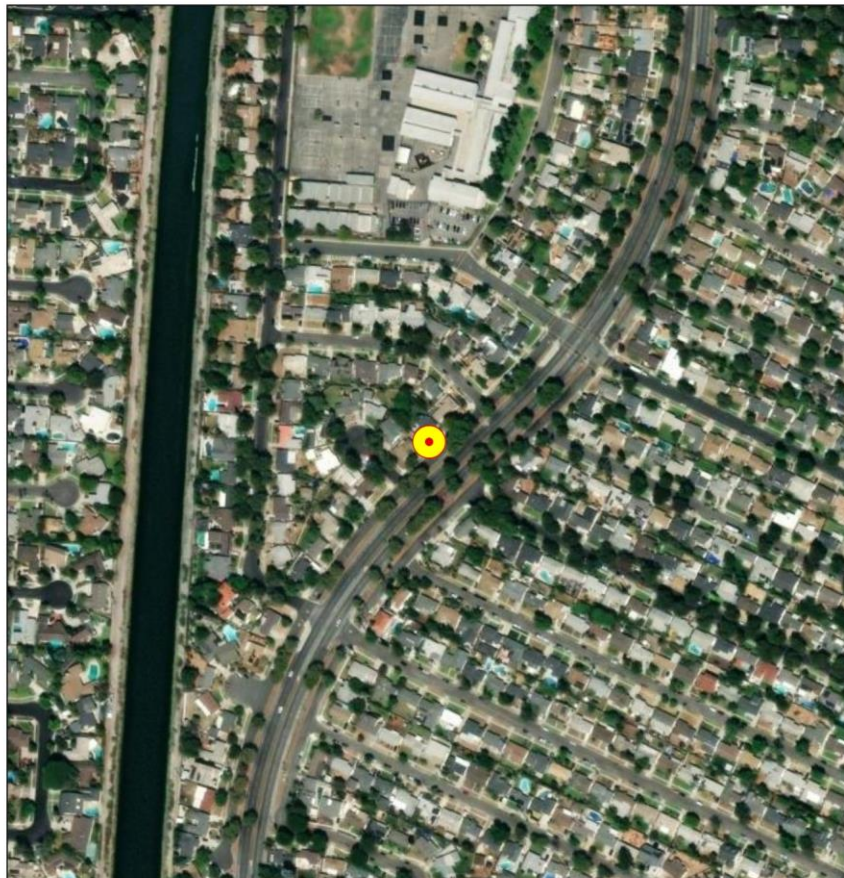
Prepared by/Crew: David Shu

Temperature: 52 °F Relative Humidity: 83 % Wind & Direction: 0 mph/Calm Sky: Cloudy

SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

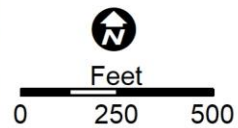
Calibration:

Posted Speed Limit (mph): 40 Observed Speed (mph): 40-45



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	9:32 AM	15 mins	51.8	64.6	71.7	---	---	---



Figure 1. Looking east



Figure 2. Looking south

Measurement Report

Report Summary

Meter's File Name	LxT_Data.013.s	Computer's File Name	LxTse_0006591-20230111 093259-LxT_Data.013.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User				Location
Job Description				
Note				
Start Time	2023-01-11 09:32:59	Duration	0:15:00.0	
End Time	2023-01-11 09:47:59	Run Time	0:14:52.1	Pause Time 0:00:07.9

Results

Overall Metrics

LA _{eq}	64.6 dB		
LAE	94.1 dB	SEA	--- dB
EA	283.0 μPa ² h		
LZ _{peak}	98.9 dB	2023-01-11 09:38:15	
LAS _{max}	71.7 dB	2023-01-11 09:36:03	
LAS _{min}	51.8 dB	2023-01-11 09:45:16	
LA _{eq}	64.6 dB		
LC _{eq}	71.4 dB	LC _{eq} - LA _{eq}	6.8 dB
LAI _{eq}	65.2 dB	LAI _{eq} - LA _{eq}	0.6 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
64.6 dB	64.6 dB	0.0 dB	
LDEN	LDay	LEve	LNight
64.6 dB	64.6 dB	--- dB	--- dB

Any Data

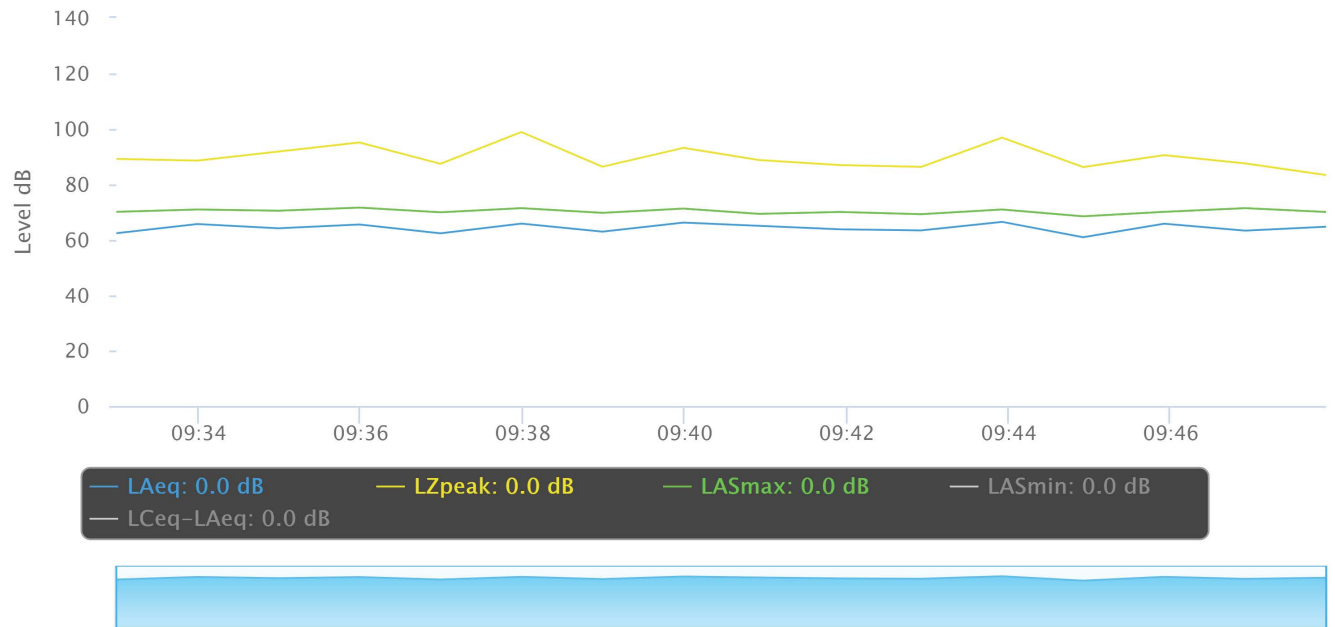
	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	64.6 dB		71.4 dB		--- dB	
L _{S(max)}	71.7 dB	2023-01-11 09:36:03	--- dB		--- dB	
L _{S(min)}	51.8 dB	2023-01-11 09:45:16	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		98.9 dB	2023-01-11 09:38:15

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	4	0:00:14.1

Statistics

LAS 5.0	69.3 dB
LAS 10.0	68.5 dB
LAS 33.3	65.1 dB
LAS 50.0	62.3 dB
LAS 66.6	59.7 dB
LAS 90.0	55.4 dB

Time History



Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 3, (Lat/Long: 33.781821 -118.102553)

Sidewalk near residence at 6705 Anaheim Road

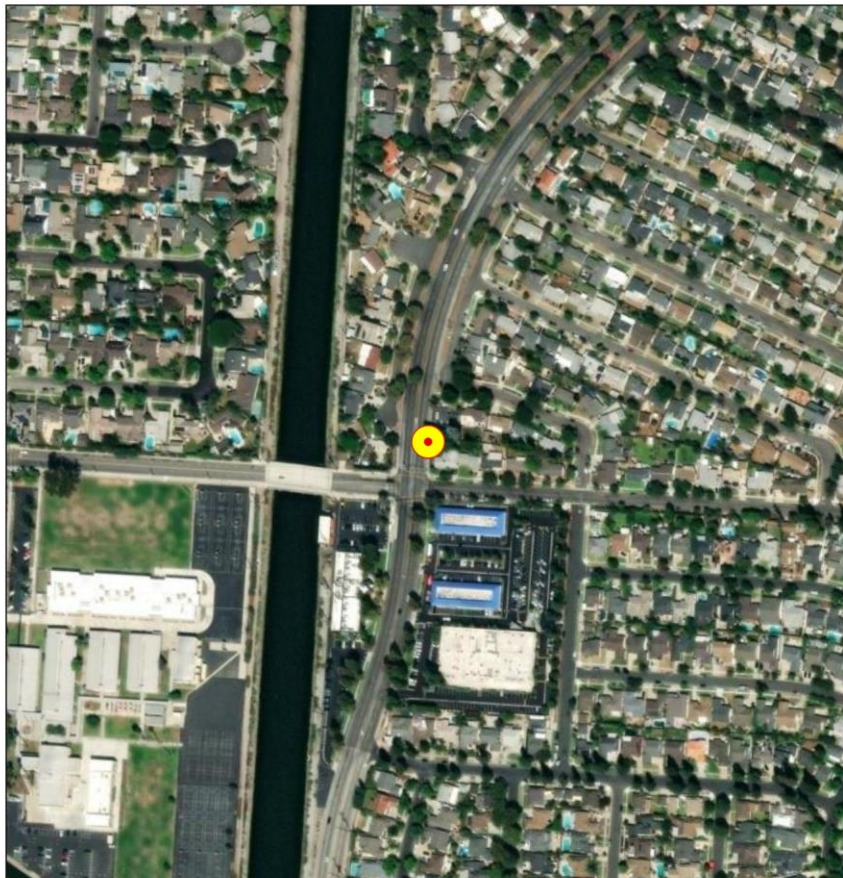
Prepared by/Crew: David Shu

Temperature: 54 °F Relative Humidity: 80 % Wind & Direction: 0 mph/Calm Sky: Cloudy


SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

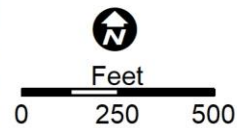
Calibration:

Posted Speed Limit (mph): 40 Observed Speed (mph): 40-45



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	9:56 AM	15 mins	50.6	73.8	94.1	---	---	---



Figure 1. Looking south



Figure 2. Looking north

Measurement Report

Report Summary

Meter's File Name	LxT_Data.014.s	Computer's File Name	LxTse_0006591-20230111 095637-LxT_Data.014.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User	Location			
Job Description				
Note				
Start Time	2023-01-11 09:56:37	Duration	0:15:01.3	
End Time	2023-01-11 10:11:38	Run Time	0:15:01.3	Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	73.8 dB		
LAE	103.4 dB	SEA	--- dB
EA	2.4 mPa ² h		
LZ _{peak}	116.5 dB	2023-01-11 09:59:09	
LAS _{max}	94.1 dB	2023-01-11 09:59:09	
LAS _{min}	50.6 dB	2023-01-11 10:02:21	
LA _{eq}	73.8 dB		
LC _{eq}	78.6 dB	LC _{eq} - LA _{eq}	4.7 dB
LAI _{eq}	76.0 dB	LAI _{eq} - LA _{eq}	2.2 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	1	0:00:07.3
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
73.8 dB	73.8 dB	0.0 dB	
LDEN	LDay	LEve	LNight
73.8 dB	73.8 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	73.8 dB		78.6 dB		--- dB	
L _{S(max)}	94.1 dB	2023-01-11 09:59:09	--- dB		--- dB	
L _{S(min)}	50.6 dB	2023-01-11 10:02:21	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		116.5 dB	2023-01-11 09:59:09

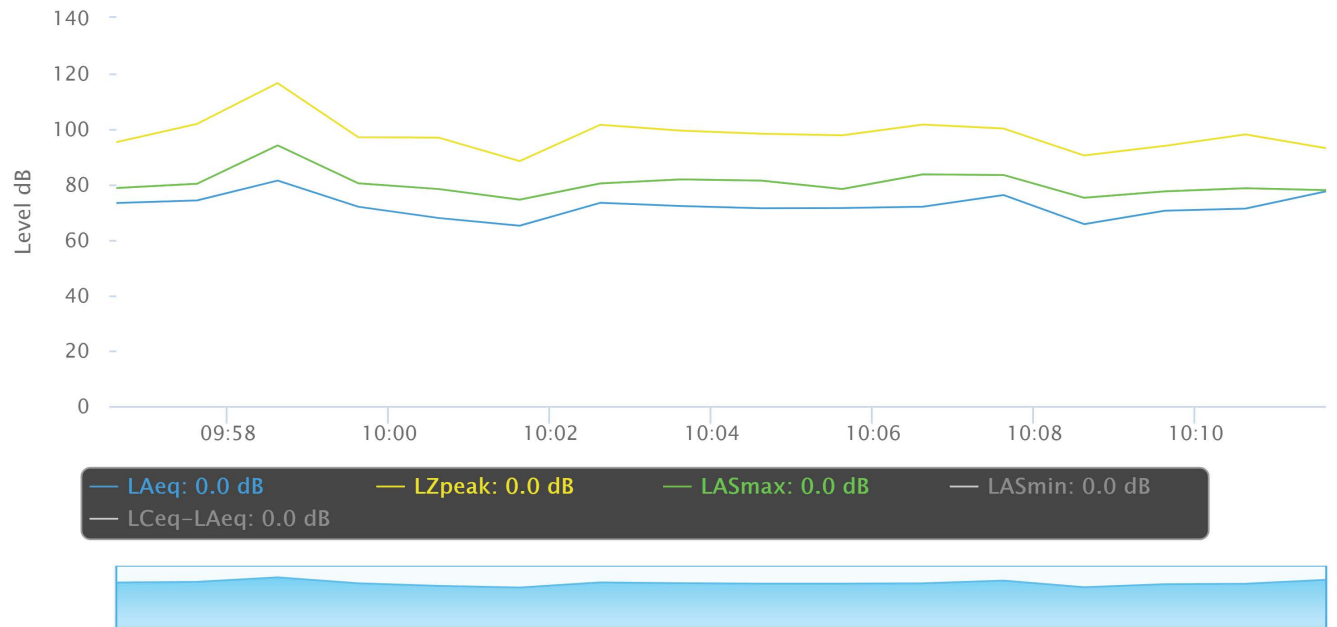
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	28	0:02:33.7

Statistics

LAS 5.0	78.6 dB
LAS 10.0	77.0 dB
LAS 33.3	70.7 dB
LAS 50.0	65.8 dB
LAS 66.6	62.2 dB
LAS 90.0	56.1 dB

Time History



Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 4, (Lat/Long: 33.777069 -118.102420)

Behind the backyard privacy wall near residence at 833 Lees Avenue

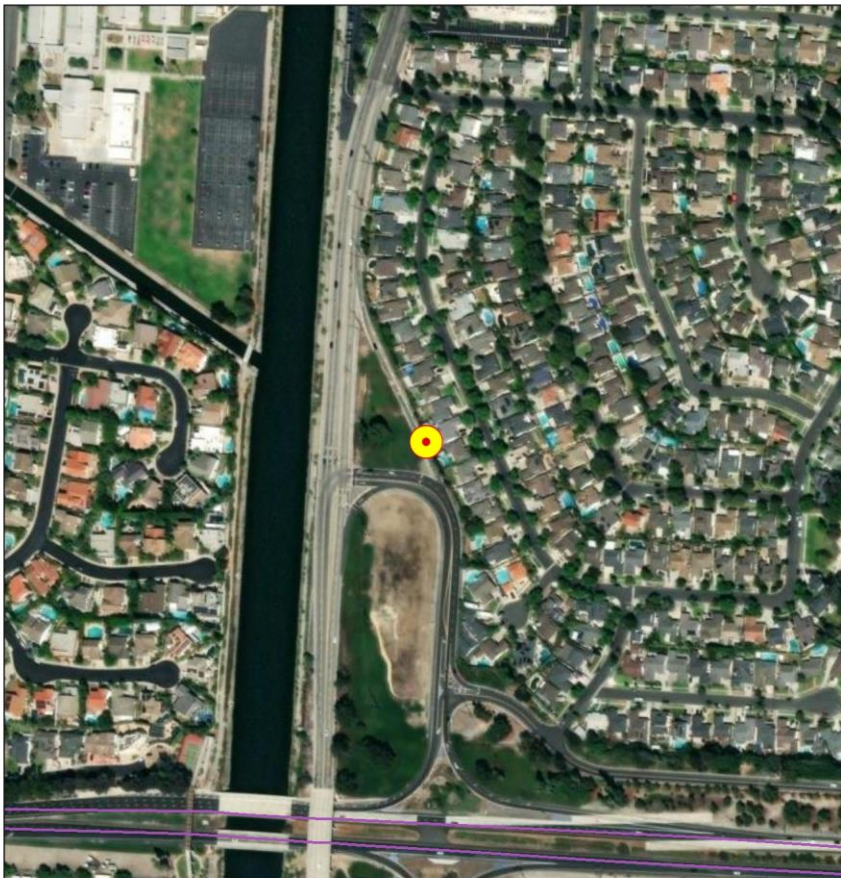
Prepared by/Crew: David Shu

Temperature: 54 °F Relative Humidity: 80 % Wind & Direction: 0 mph/Calm Sky: Cloudy

SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

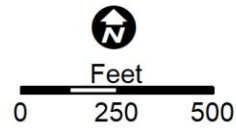
Calibration:

Posted Speed Limit (mph): 40 Observed Speed (mph): 40-45



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	10:19 AM	15 mins	49.4	68.6	81.8	---	---	---

meter paused during overhead aircraft fly over.



Figure 1. Looking west



Figure 2. Looking north

Measurement Report

Report Summary

Meter's File Name	LxT_Data.015.s	Computer's File Name	LxTse_0006591-20230111 101937-LxT_Data.015.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User				Location
Job Description				
Note				
Start Time	2023-01-11 10:19:37	Duration	0:15:04.3	
End Time	2023-01-11 10:34:41	Run Time	0:14:43.2	Pause Time 0:00:21.1

Results

Overall Metrics

LA _{eq}	68.6 dB		
LAE	98.1 dB	SEA	--- dB
EA	715.2 μPa ² h		
LZ _{peak}	100.6 dB	2023-01-11 10:20:25	
LAS _{max}	81.8 dB	2023-01-11 10:20:25	
LAS _{min}	49.4 dB	2023-01-11 10:26:20	
LA _{eq}	68.6 dB		
LC _{eq}	72.7 dB	LC _{eq} - LA _{eq}	4.1 dB
LAI _{eq}	70.9 dB	LAI _{eq} - LA _{eq}	2.3 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
68.6 dB	68.6 dB	0.0 dB	
LDEN	LDay	LEve	LNight
68.6 dB	68.6 dB	--- dB	--- dB

Any Data

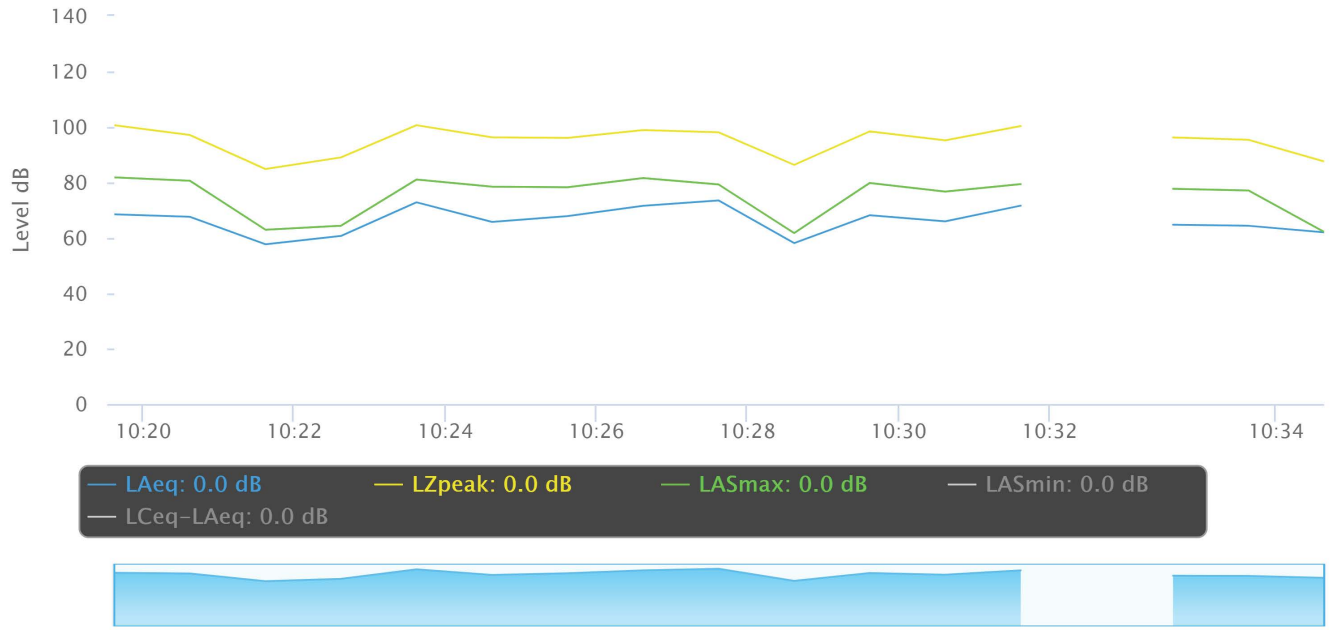
	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	68.6 dB		72.7 dB		--- dB	
L _{S(max)}	81.8 dB	2023-01-11 10:20:25	--- dB		--- dB	
L _{S(min)}	49.4 dB	2023-01-11 10:26:20	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		100.6 dB	2023-01-11 10:20:25

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	27	0:01:28.9

Statistics

LAS 5.0	76.7 dB
LAS 10.0	73.4 dB
LAS 33.3	62.4 dB
LAS 50.0	60.7 dB
LAS 66.6	58.4 dB
LAS 90.0	55.5 dB

Time History



Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 5, (Lat/Long: 33.774877 -118.100686)

Behind the backyard privacy wall near 6860 Septimo Street

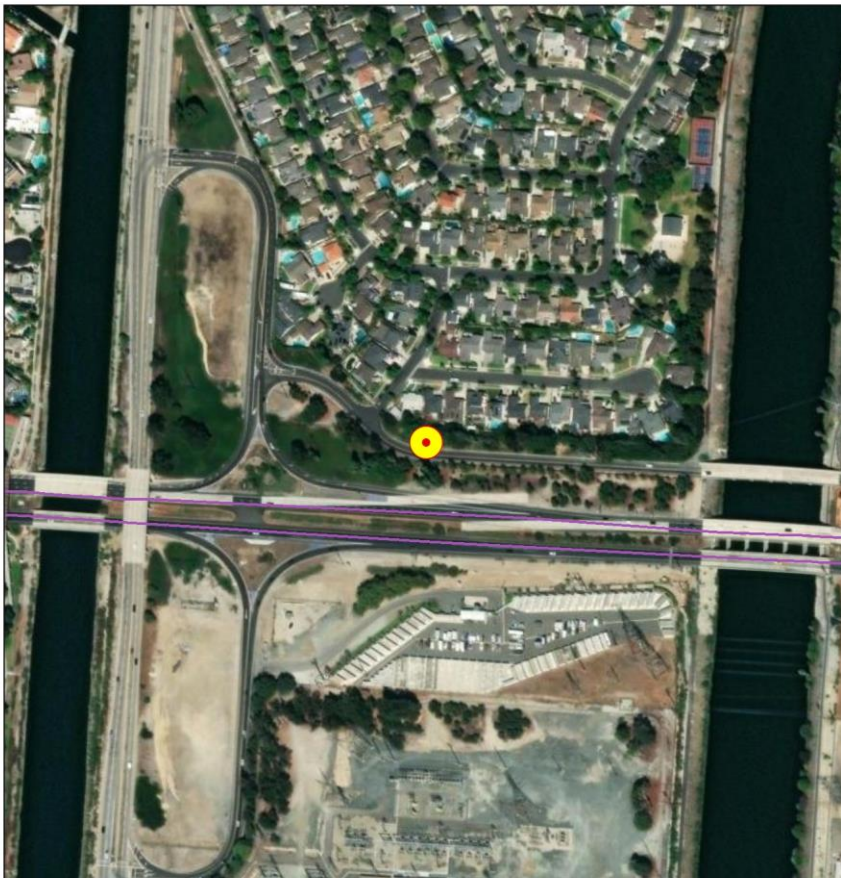
Prepared by/Crew: David Shu

Temperature: 57 °F Relative Humidity: 74 % Wind & Direction: 0 mph/Calm Sky: Cloudy


SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

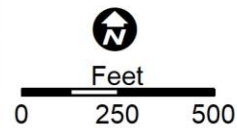
Calibration:

Posted Speed Limit (mph): 50 Observed Speed (mph): 50-55



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	10:45 AM	15 mins	54.9	63.3	75.1	---	---	---



Figure 1. Looking south



Figure 2. Looking west

Measurement Report

Report Summary

Meter's File Name	LxT_Data.016.s	Computer's File Name	LxTse_0006591-20230111 104519-LxT_Data.016.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User		Location		
Job Description				
Note				
Start Time	2023-01-11 10:45:19	Duration	0:15:02.9	
End Time	2023-01-11 11:00:22	Run Time	0:15:02.9	Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	63.3 dB		
LAE	92.9 dB	SEA	--- dB
EA	215.4 μPa ² h		
LZ _{peak}	100.2 dB	2023-01-11 10:49:33	
LAS _{max}	75.1 dB	2023-01-11 10:49:33	
LAS _{min}	54.9 dB	2023-01-11 10:52:14	
LA _{eq}	63.3 dB		
LC _{eq}	71.8 dB	LC _{eq} - LA _{eq}	8.4 dB
LAI _{eq}	64.5 dB	LAI _{eq} - LA _{eq}	1.2 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
63.3 dB	63.3 dB	0.0 dB	
LDEN	LDay	LEve	LNight
63.3 dB	63.3 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	63.3 dB		71.8 dB		--- dB	
L _{S(max)}	75.1 dB	2023-01-11 10:49:33	--- dB		--- dB	
L _{S(min)}	54.9 dB	2023-01-11 10:52:14	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		100.2 dB	2023-01-11 10:49:33

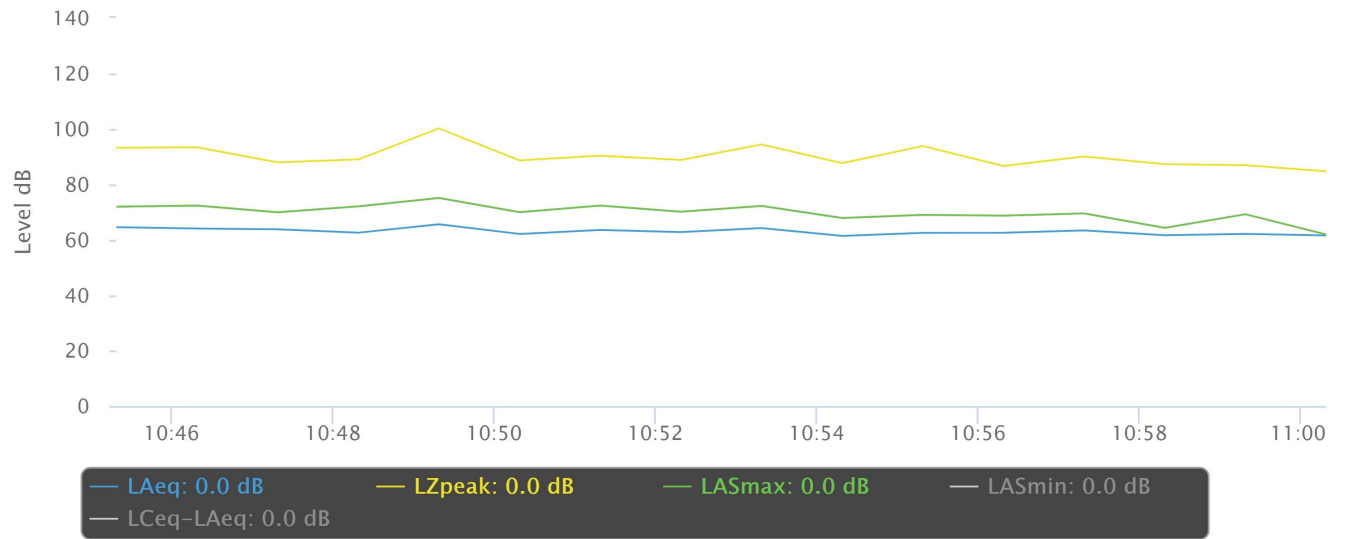
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	6	0:00:16.0

Statistics

LAS 5.0	67.9 dB
LAS 10.0	65.7 dB
LAS 33.3	62.7 dB
LAS 50.0	61.9 dB
LAS 66.6	61.0 dB
LAS 90.0	59.1 dB

Time History



Project Number/Name: HAYNES GENERATING STATION PROJECT Date: 1/11/2023

Site Number/Description: MON 6, (Lat/Long: 33.774910 -118.096267)

20 feet from the roadway in Edison Park

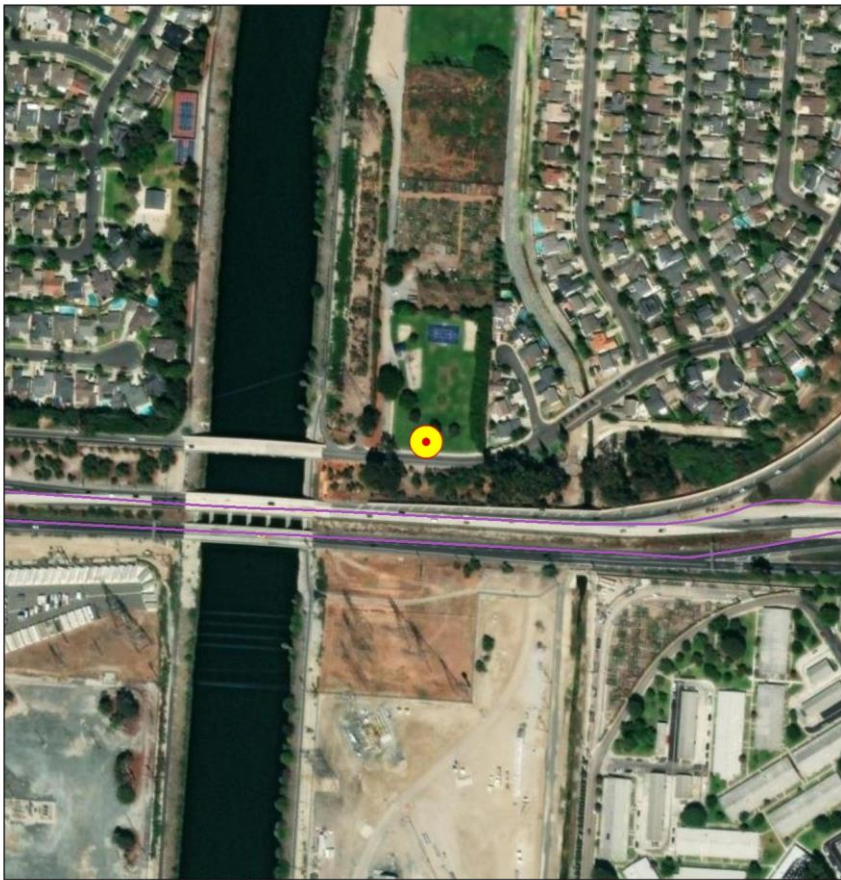
Prepared by/Crew: David Shu

Temperature: 57 °F Relative Humidity: 74 % Wind & Direction: 0 mph/Calm Sky: Cloudy

SLM Make/Model: Larson Davis LxT SE Calibration Make/Model: Larson Davis CAL 200

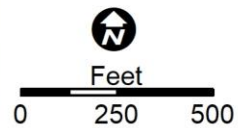
Calibration:

Posted Speed Limit (mph): 50 Observed Speed (mph): 50-55



Long Beach Water Department
 LADWP Haynes Generating Station
 Recycled Water Pipeline Project

Legend
 Monitoring Location



Source: AZTEC (2023). World Imagery (Accessed in 2023)

Sample	Time		Sound Level, dBA			Traffic Count		
	Start	Duration	L _{MIN}	L _{EQ}	L _{MAX}	Auto	Med. Trk.	Hvy. Trk.
1	11:07 AM	15 mins	53.4	57.9	68.5	---	---	---

meter paused during overhead aircraft fly over.



Figure 1. Looking south



Figure 2. Looking west

Measurement Report

Report Summary

Meter's File Name	LxT_Data.017.s	Computer's File Name	LxTse_0006591-20230111 110742-LxT_Data.017.ldbin	
Meter	LxT SE	0006591		
Firmware	2.404			
User				Location
Job Description				
Note				
Start Time	2023-01-11 11:07:42	Duration	0:15:01.4	
End Time	2023-01-11 11:22:43	Run Time	0:14:06.7	Pause Time 0:00:54.7

Results

Overall Metrics

LA _{eq}	57.9 dB		
LAE	87.2 dB	SEA	--- dB
EA	57.7 μPa ² h		
LZ _{peak}	94.6 dB	2023-01-11 11:19:05	
LAS _{max}	68.5 dB	2023-01-11 11:19:06	
LAS _{min}	53.4 dB	2023-01-11 11:16:08	
LA _{eq}	57.9 dB		
LC _{eq}	70.0 dB	LC _{eq} - LA _{eq}	12.1 dB
LAI _{eq}	58.5 dB	LAI _{eq} - LA _{eq}	0.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
57.9 dB	57.9 dB	0.0 dB	
LDEN	LDay	LEve	LNight
57.9 dB	57.9 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	57.9 dB		70.0 dB		--- dB	
L _{S(max)}	68.5 dB	2023-01-11 11:19:06	--- dB		--- dB	
L _{S(min)}	53.4 dB	2023-01-11 11:16:08	--- dB		--- dB	
L _{Peak(max)}	--- dB		--- dB		94.6 dB	2023-01-11 11:19:05

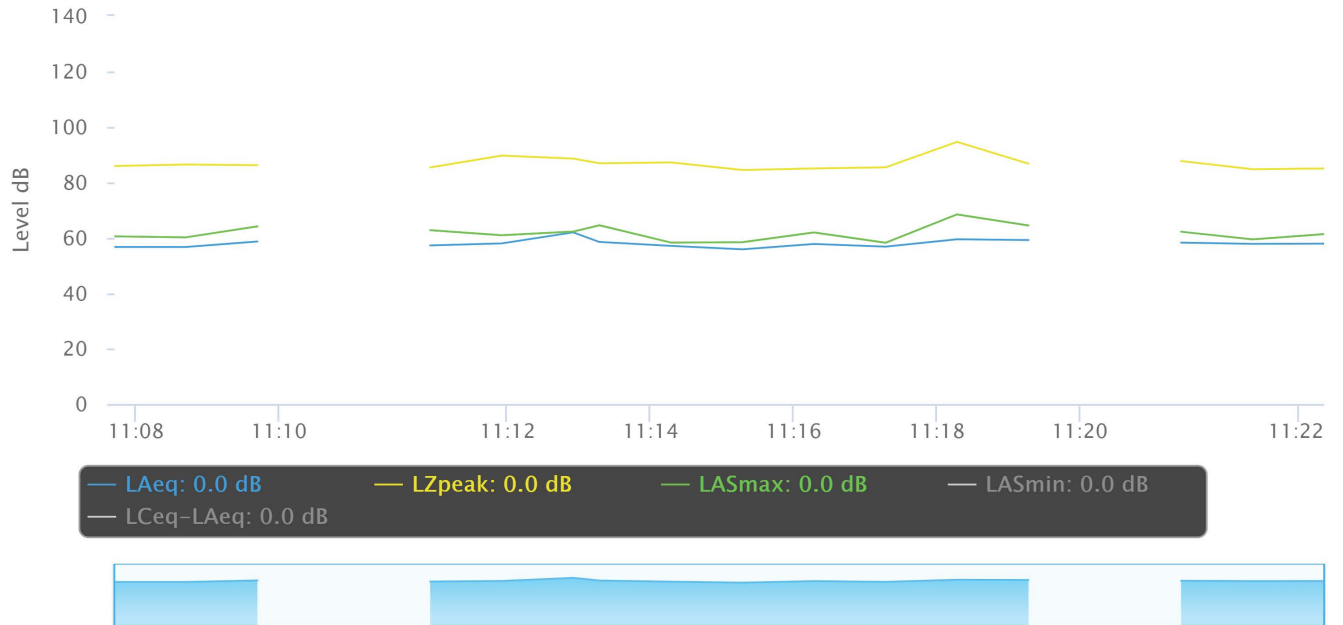
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	1	0:00:03.2

Statistics

LAS 5.0	60.6 dB
LAS 10.0	59.5 dB
LAS 33.3	57.7 dB
LAS 50.0	57.2 dB
LAS 66.6	56.7 dB
LAS 90.0	55.4 dB

Time History



APPENDIX B
Roadway Construction Noise Model Results

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/21/2023
 Case Description: SitePreparation

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R1	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	65.0	0.0
Excavator	No	40		80.7	65.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe N/A	N/A	75.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator N/A	N/A	78.4	74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	78.4	76.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R2	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	165.0	0.0
Excavator	No	40		80.7	165.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe N/A	N/A	67.2	63.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator N/A	N/A	70.3	66.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	70.3	68.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A N/A

**** Receptor #3 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R3	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50.0	0.0
Excavator	No	40		80.7	50.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	80.7	78.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R4	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	180.0	0.0
Excavator	No	40		80.7	180.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	66.4	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	69.6	67.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #5 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R5	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0

Results															
Exceedance (dBA)															
Noise Limits (dBA)															
Noise Limit															
Night		Calculated (dBA)				Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	74.6	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Total	77.8	75.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #6 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R6	Residential	70.0	70.0	70.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	60.0	0.0
Excavator	No	40		80.7	60.0	0.0

Results															
Exceedance (dBA)															
Noise Limits (dBA)															
Noise Limit															
Night		Calculated (dBA)				Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	76.0	72.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Total	79.1	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #7 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night

R7 Residential 65.0 65.0 65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	65.0	6.0
Excavator	No	40		80.7	65.0	6.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	69.3	65.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	72.4	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	72.4	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #8 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R8	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	44.0	6.0
Excavator	No	40		80.7	44.0	6.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	72.7	68.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	75.8	71.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	75.8	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #9 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R9	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Backhoe	No	40		77.6	45.0	6.0
Excavator	No	40		80.7	45.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	72.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	75.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	75.6	73.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #10 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R10	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Backhoe	No	40		77.6	90.0	6.0
Excavator	No	40		80.7	90.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	66.5	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	69.6	67.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #11 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R11	Residential	60.0	60.0	60.0

Equipment		Spec	Actual	Receptor	Estimated
Lmax	Leq				

Description	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Backhoe	No	40		77.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	74.6	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	77.8	75.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/21/2023
 Case Description: PavementRemoval

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R1	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	65.0	0.0
Excavator	No	40		80.7	65.0	0.0
Dump Truck	No	40		76.5	65.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					

	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Scraper	N/A	N/A	81.3	77.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	78.4	74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	74.2	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	81.3	79.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R2	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	165.0	0.0
Excavator	No	40		80.7	165.0	0.0
Dump Truck	No	40		76.5	165.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					

	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Scraper			73.2	69.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A	N/A												
Excavator		70.3	66.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Dump Truck		66.1	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	73.2	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R3	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	50.0	0.0
Excavator	No	40		80.7	50.0	0.0
Dump Truck	No	40		76.5	50.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
		Calculated (dBA)				Day		Evening		Night		Day	
Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment													
Lmax	Leq												
Scraper		83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Excavator		80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Dump Truck		76.5	72.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	83.6	81.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #4 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R4	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	180.0	0.0
Excavator	No	40		80.7	180.0	0.0
Dump Truck	No	40		76.5	180.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
		Calculated (dBA)				Day		Evening		Night		Day	
Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment													
Lmax	Leq												

Scraper		72.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Excavator		69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Dump Truck		65.3	61.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	72.5	70.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #5 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R5	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0
Dump Truck	No	40		76.5	70.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Scraper			80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A													
Excavator			77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A													
Dump Truck			73.5	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A													
	Total		80.7	79.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A													

**** Receptor #6 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R6	Residential	70.0	70.0	70.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	60.0	0.0
Excavator	No	40		80.7	60.0	0.0
Dump Truck	No	40		76.5	60.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq

Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
Scrapper	N/A	82.0	78.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	74.9	70.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	82.0	80.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #7 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R7	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scrapper	No	40		83.6	65.0	6.0
Excavator	No	40		80.7	65.0	6.0
Dump Truck	No	40		76.5	65.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)						Noise Limit	
	Calculated (dBA)		Day	Evening	Night	Day	Evening	

Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
Scrapper	N/A	75.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	72.4	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	68.2	64.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	75.3	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #8 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R8	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scrapper	No	40		83.6	44.0	6.0
Excavator	No	40		80.7	44.0	6.0
Dump Truck	No	40		76.5	44.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)						Noise Limit	
	Calculated (dBA)		Day	Evening	Night	Day	Evening	

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
-----		-----		-----		-----		-----		-----		-----	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
-----		-----		-----		-----		-----		-----		-----	
Scraper		78.7	74.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Excavator		75.8	71.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Dump Truck		71.6	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	78.7	77.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #9 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R9	Residential	60.0	60.0	60.0	

		Equipment				
-----		-----				
Description	Impact Device	Usage (%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
-----		-----				
Scraper	No	40		83.6	45.0	6.0
Excavator	No	40		80.7	45.0	6.0
Dump Truck	No	40		76.5	45.0	6.0

Results

Exceedance (dBA) Noise Limits (dBA) Noise Limit

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
-----		-----		-----		-----		-----		-----		-----	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
-----		-----		-----		-----		-----		-----		-----	
Scraper		78.5	74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Excavator		75.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Dump Truck		71.4	67.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	78.5	76.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #10 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R10	Residential	60.0	60.0	60.0	

		Equipment				
-----		-----				
Description	Impact Device	Usage (%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
-----		-----				
Scraper	No	40		83.6	90.0	6.0
Excavator	No	40		80.7	90.0	6.0
Dump Truck	No	40		76.5	90.0	6.0

Results

Exceedance (dBA) Noise Limits (dBA) Noise Limit

Exceedance (dBA)

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Scrapper	N/A	72.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	65.3	61.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	72.5	70.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #11 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R11	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Scrapper	No	40		83.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0
Dump Truck	No	40		76.5	70.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Scrapper	N/A	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	73.5	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	80.7	79.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/21/2023
 Case Description: Pipeline Installation

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R1	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	65.0	0.0
Excavator	No	40		80.7	65.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit				
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	75.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	78.4	74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	78.4	76.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R2	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	165.0	0.0
Excavator	No	40		80.7	165.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit				
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	67.2	63.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	70.3	66.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	70.3	68.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A N/A

**** Receptor #3 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R3	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50.0	0.0
Excavator	No	40		80.7	50.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	80.7	78.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R4	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	180.0	0.0
Excavator	No	40		80.7	180.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	66.4	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	69.6	67.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #5 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R5	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0

Results															
Exceedance (dBA)															
Noise Limits (dBA)															
Noise Limit															
Night		Calculated (dBA)				Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	74.6	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Total	77.8	75.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #6 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R6	Residential	70.0	70.0	70.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	60.0	0.0
Excavator	No	40		80.7	60.0	0.0

Results															
Exceedance (dBA)															
Noise Limits (dBA)															
Noise Limit															
Night		Calculated (dBA)				Day		Evening		Night		Day		Evening	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	76.0	72.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Total	79.1	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #7 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night

R7 Residential 65.0 65.0 65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	65.0	6.0
Excavator	No	40		80.7	65.0	6.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit				
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	69.3	65.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	72.4	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	72.4	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #8 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R8	Residential	65.0	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	44.0	6.0
Excavator	No	40		80.7	44.0	6.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit				
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	72.7	68.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	75.8	71.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	75.8	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #9 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R9	Residential	60.0	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Backhoe	No	40		77.6	45.0	6.0
Excavator	No	40		80.7	45.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)										Noise Limit			

	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	72.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	75.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	75.6	73.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #10 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R10	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Backhoe	No	40		77.6	90.0	6.0
Excavator	No	40		80.7	90.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)										Noise Limit			

	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	66.5	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	69.6	67.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #11 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
R11	Residential	60.0	60.0	60.0

Equipment			
Spec	Actual	Receptor	Estimated

Description	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Backhoe	No	40		77.6	70.0	0.0
Excavator	No	40		80.7	70.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	74.6	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	77.8	73.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	77.8	75.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/21/2023
 Case Description: Paving

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R1	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	65.0	0.0
Paver	No	50		77.2	65.0	0.0
Compactor (ground)	No	20		83.2	65.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	N/A	N/A	74.2	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	74.9	71.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	81.0	74.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	81.0	77.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R2	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	165.0	0.0
Paver	No	50		77.2	165.0	0.0
Compactor (ground)	No	20		83.2	165.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck			66.1	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Paver	N/A	N/A	66.8	63.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	72.9	65.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A											
	N/A	N/A	Total	72.9	69.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R3	Residential	65.0	65.0	65.0	

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	50.0	0.0
Paver	No	50		77.2	50.0	0.0
Compactor (ground)	No	20		83.2	50.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	N/A	N/A	76.5	72.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	83.2	76.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	83.2	79.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description	Land Use	Daytime	Baselines (dBA)		
			Evening	Night	
R4	Residential	65.0	65.0	65.0	

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	180.0	0.0
Paver	No	50		77.2	180.0	0.0
Compactor (ground)	No	20		83.2	180.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit					
	Calculated (dBA)				Day		Evening		Night		Day		Evening	
	Night		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq

Dump Truck		65.3	61.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Paver		66.1	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Compactor (ground)		72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	72.1	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #5 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R5	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Dump Truck	No	40		76.5	70.0	0.0
Paver	No	50		77.2	70.0	0.0
Compactor (ground)	No	20		83.2	70.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit			
	Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	73.5	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
Paver	74.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
Compactor (ground)	80.3	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
	80.3	76.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											

**** Receptor #6 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R6	Residential	70.0	70.0	70.0

Equipment

Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Dump Truck	No	40		76.5	60.0	0.0
Paver	No	50		77.2	60.0	0.0
Compactor (ground)	No	20		83.2	60.0	0.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit			
	Calculated (dBA)		Day		Evening		Night		Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	73.5	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
Paver	74.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
Compactor (ground)	80.3	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											
	80.3	76.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A											

Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
Dump Truck	N/A	74.9	70.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	75.6	72.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	81.6	74.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	81.6	77.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A												

**** Receptor #7 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R7	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dump Truck	No	40		76.5	65.0	6.0
Paver	No	50		77.2	65.0	6.0
Compactor (ground)	No	20		83.2	65.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit			
	Night		Day		Evening		Night		Day		Evening	
	Calculated (dBA)											
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	68.2	64.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	68.9	65.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	75.0	68.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	75.0	71.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #8 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R8	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dump Truck	No	40		76.5	44.0	6.0
Paver	No	50		77.2	44.0	6.0
Compactor (ground)	No	20		83.2	44.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit			
	Night		Day		Evening		Night		Day		Evening	
	Calculated (dBA)											
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
-----		-----		-----		-----		-----		-----		-----	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
-----		-----		-----		-----		-----		-----		-----	
Dump Truck		71.6	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Paver		72.3	69.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Compactor (ground)		78.3	71.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	78.3	74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #9 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R9	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	45.0	6.0
Paver	No	50		77.2	45.0	6.0
Compactor (ground)	No	20		83.2	45.0	6.0

Results

Exceedance (dBA)	Noise Limits (dBA)								Noise Limit				

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
-----		-----		-----		-----		-----		-----		-----	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq												
-----		-----		-----		-----		-----		-----		-----	
Dump Truck		71.4	67.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Paver		72.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
Compactor (ground)		78.1	71.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												
	Total	78.1	74.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A												

**** Receptor #10 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R10	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dump Truck	No	40		76.5	90.0	6.0
Paver	No	50		77.2	90.0	6.0
Compactor (ground)	No	20		83.2	90.0	6.0

Results

Noise Limits (dBA) Noise Limit

Exceedance (dBA)

Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	N/A	65.3	61.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	66.1	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	72.1	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #11 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
R11	Residential	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dump Truck	No	40		76.5	70.0	0.0
Paver	No	50		77.2	70.0	0.0
Compactor (ground)	No	20		83.2	70.0	0.0

Results

Exceedance (dBA)		Noise Limits (dBA)								Noise Limit			
Night		Calculated (dBA)		Day		Evening		Night		Day		Evening	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dump Truck	N/A	73.5	69.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	74.3	71.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	80.3	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	80.3	76.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

APPENDIX G

Mitigation Monitoring and Reporting Program Summary

Long Beach Utilities Department
Long Beach Utilities Department / Los Angeles Department of Water and Power
Haynes Generating Station Recycled Water Pipeline Project
Mitigation Monitoring and Reporting Program Summary

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
Air Quality						
MM AQ-1	<p>Fugitive Dust Control. During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions shall be controlled by regular watering or other dust preventive measures using the following procedures, as specified in the SCAQMD Rule 403. All material excavated or graded shall be sufficiently watered in sufficient quantities to prevent the generation of visible dust plumes. Watering shall occur at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. All material transported on-site or off-site shall be securely covered to prevent excessive amounts of dust. The area disturbed by clearing, grading, earth moving, or excavation operations shall be minimized so as to prevent excessive amounts of dust. The following control techniques shall be indicated in Project specifications:</p> <ul style="list-style-type: none"> • Minimize land disturbance • Use watering trucks to minimize dust; watering should be sufficient 	Condition of Approval	Field Inspections, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>to confine dust plumes to the Project work areas</p> <ul style="list-style-type: none"> • Suspend grading and earth moving when wind gusts exceed 25 miles per hour unless the soil is wet enough to prevent dust plumes • Cover trucks when hauling dirt • Stabilize the surface of dirt piles if not removed immediately • Limit vehicular paths on unpaved surfaces and stabilize any temporary roads • Sweep paved streets where there is evidence of dirt that has been carried on to the roadway • Provide an operational water truck on-site at all times and use watering trucks to minimize dust; watering should be sufficient to confine dust plumes to the Project work areas. 					
MM AQ-2	<p>Exhaust Emissions Control. The following measures shall be implemented as best management practices to minimize construction emissions:</p> <ul style="list-style-type: none"> • Minimize unnecessary vehicular and machinery activities 	Condition of Approval	Field Inspections, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<ul style="list-style-type: none"> • Ensure that all construction equipment is properly tuned and maintained • Minimize idling time to 5 minutes, which saves fuel and reduces emissions • Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary power generators. 					
Biological Resources						
MM BIO-1	<p>Vegetation Removal. Vegetation removal activities will be scheduled outside of nesting bird (breeding) season for bird species known to occur within the Project area (October through December), if possible. If vegetation removal activities occur between January 1 and September 30, nesting bird surveys will be conducted prior to vegetation removal activities, and no vegetation removal will occur if an active nest is present. Vegetation removal can occur once the nest is confirmed to be no longer active.</p>	Condition of Approval	Nesting Bird Survey, as Necessary (between January and September)	During Construction Activities, Prior to Vegetation Removal Activities (January through September)	Long Beach Utilities Department	
MM BIO-2	<p>Burrowing Owl Survey. A qualified biologist will be employed to complete a pre-construction survey</p>	Condition of Approval	Burrowing Owl Survey, as Necessary	During Construction Activities, 96	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	for burrowing owls 96 hours prior to ground disturbing activities occurring in all suitable habitat for the burrowing owl. Surveys will be needed along the portion of the Project alignment in the City of Seal Beach, California and south of College Park Drive including the landscaped area within SR 22 ROW and the HGS property. If active burrows (occupied by burrowing owl[s]) are identified, no Project activities will take place within 100 feet of an active burrow (occupied by burrowing owl[s]).			Hours Prior to Ground Disturbing Activities Within Suitable Habitat		
MM BIO-3	Burrowing Owl Relocation. If a burrowing owl or active burrows (occupied by burrowing owl[s]) cannot be avoided, a qualified biologist holding a permit from the U.S. Fish and Wildlife Service will be employed to relocate burrowing owl(s) from the Project area, as appropriate.	Condition of Approval	Burrowing Owl Relocation, as Necessary	During Construction	Long Beach Utilities Department	
Cultural Resources						
MM CUL-1	Retention of Qualified Archaeologist and Worker Training. Prior to the issuance of a grading permit by the City of Long Beach, evidence shall be provided to the City and responsible agencies that a qualified archaeologist meeting the Secretary of the Interior’s Standards for professional archaeology (U.S.	Condition of Approval	Retention of Qualified Personnel	Prior to Ground Disturbing Activities, During Ground Disturbing Activities	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>Secretary of the Interior 2008) has been retained by the Applicant to conduct any required training, evaluation, or treatment of archaeological resources that might be encountered during implementation of the project. As part of this, prior to the start of grading, the qualified archaeologist shall conduct cultural resources sensitivity training for all construction personnel. Construction personnel must be informed of the types of archaeological resources that may be encountered (both prehistoric and historical), and of the proper procedures to be enacted in the event of an inadvertent discovery of archaeological resources or human remains. The Applicant must ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance. This documentation shall be made available to the City upon request.</p>					
MM CUL-2	<p>Treatment of Human Remains. In accordance with California Health and Safety Code Section 7050.5, if human remains are found, the Los Angeles County Coroner shall be immediately notified of the discovery.</p>	Condition of Approval	Coroner’s Report/Evaluation, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains (100 feet or as determined by the project archaeologist) shall occur until the procedures set forth in this measure have been implemented. If the County Coroner determines that the remains are, or are believed to be, Native American, the Coroner shall notify the Native American Heritage Commission (NAHC) within 24 hours. In accordance with California PRC Section 5097.98, the NAHC must immediately notify those persons it believes to be the Most Likely Descendant (MLD) from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.</p>					
MM CUL-3	<p>Archaeological Resource and/or Tribal Cultural Resource Discovery and Treatment. In the event of the unanticipated discovery of archaeological or other cultural resources, whether discovered through Native American monitoring or</p>	Condition of Approval	Cultural Resources Monitoring, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>not, all work activities in the area (within approximately 100 feet of the discovery) shall be halted or redirected until the discovery can be evaluated by a qualified archaeologist. Construction shall not resume until a qualified archaeologist has conferred with the City and responsible agencies and, in the case of prehistoric archaeological resources and tribal cultural resources, the Native American monitor, on the significance of the resource. If it is determined that the discovered archaeological resource and/or tribal cultural resource is significant under CEQA, avoidance and preservation in place shall be the preferred manner of mitigation, pursuant to PRC Section 21083.2(b) and Section 21084.3. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, capping, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, a Treatment Plan shall be prepared and implemented by a qualified archaeologist, in consultation with the City, that</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>provides for the adequate recovery of the scientifically consequential information contained in the archaeological resource or cultural information in the event of a tribal cultural resource. The City shall also consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources to ensure cultural values ascribed to the resources, beyond those that are scientifically important, are considered. Any evaluation and treatment shall be supervised by an individual or individuals that meet the Secretary of the Interior’s Professional Qualification Standards.</p>					
Geology and Soils						
MM GEO-1	<p>Paleontological Resources Inadvertent Discovery. In the event paleontological resources are encountered during the course of ground disturbing activities, all such activities shall halt immediately. The applicant shall immediately notify the cities of Long Beach and/or Seal Beach and consult with a qualified paleontologist to assess the significance of the find.</p>	Condition of Approval	Paleontological Monitoring and Report, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>The paleontological assessment shall be completed in accordance with the Society of Vertebrate Paleontology standards. If the find is identified as insignificant, no additional measures will be necessary. If the find is determined to be significant, appropriate avoidance measures recommended by the qualified paleontologist and approved by the cities of Long Beach and/or Seal Beach must be followed unless avoidance is determined infeasible. If avoidance is infeasible, other appropriate measures (e.g., data recovery, excavation, curation) as recommended by the qualified paleontologist shall be instituted.</p> <p>A qualified professional paleontologist is a professional with a graduate degree in paleontology, geology, or related field, with demonstrated experience in the vertebrate, invertebrate, or botanical paleontology of California, as well as at least one year full time professional experience, or equivalent specialized training in paleontological research (i.e., the identification of fossil deposits, application of paleontological field and laboratory procedures and techniques,</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	and curation of fossil specimens), and at least 4 months of supervised field and analytic experience in general North American paleontology.					
Hazards and Hazardous Materials						
MM HAZ-1	<p>Hazardous Materials Use, Storage, and Containment. Implement the following mitigation measures during Project construction:</p> <ul style="list-style-type: none"> • Provide methods, means and facilities required to prevent contamination of soil, water, or atmosphere by discharge of noxious substances from construction as well as operation and maintenance. • Provide equipment and personnel required to perform emergency measures required to contain spillages and to remove contaminated soils or liquids. • Excavate and properly dispose of contaminated soil off-site and replace with suitable compacted fill and topsoil. • Take measures to prevent harmful substances from entering public waters. 	Condition of Approval	Field Inspections, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<ul style="list-style-type: none"> ○ Prevent disposal of wastes, effluents, chemicals, or other such substances near rivers, drainages, or in sanitary or storm sewers. ● Provide systems for control of atmospheric pollutants. ○ Prevent toxic concentrations of chemicals. ○ Prevent harmful dispersal of pollutants into atmosphere. ● Contractor's equipment used during construction as well as operation and maintenance shall conform to current Federal, State, and local laws, ordinances, regulations, and standards. ● If paints containing Lead or Chromium are to be physically disturbed or made airborne during progress of Work by activities such as abrasive blasting, welding, cutting, or torch burning; provide appropriate protection in accordance with the OSHA Lead in Construction Standard and Title 8 California Code of Regulations (T8 CCR) Section 1532.1. 					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<ul style="list-style-type: none"> • Protect site to prevent leaks and spills of fuel, oil, solvents, grease and other chemicals onto ground or pavement. <ul style="list-style-type: none"> ○ Regularly maintain equipment and vehicles during construction as well as operation and maintenance activities. ○ Place containment beneath compressor, welding machines, and fuel/oil storage areas to capture spills (plastic sheeting with berms, portable butyl containments, etc). ○ Place absorbent material on plastic sheeting, remove when saturated, and replace with fresh absorbent material. ○ Monitor fueling and equipment servicing to prevent leaks and spills. ○ Store absorbent material in dry condition on-site for cleanup of spills. 					
Noise						

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
MM N-1	<p>Noise Restrictions. Construction activities shall be limited to the hours of 7:00 AM and 7:00 PM on Monday through Friday. No construction shall be conducted on Saturdays, Sundays and City holidays unless otherwise approved by The Board of Water Commissioners of the City of Long Beach. If approved, construction activities on those days would be limited to the hours of 9:00 AM to 6:00 PM. All construction equipment shall use properly operating mufflers.</p>	Condition of Approval	Field Inspections, as Necessary	During Construction	Long Beach Utilities Department	
Transportation						
MM TR-1	<p>Prepare Standard Traffic Control Plan (TCP). During the final engineering phase and at least 30 days prior to construction, a construction TCP shall be prepared by the contractor and reviewed and approved by the lead agency. The lane/street closures in the construction TCP shall be coordinated between the construction contractor, private businesses, public transit and bus operators, emergency service providers, and residents to minimize construction-related vehicular traffic impacts. During planned closures, traffic shall be re-routed to adjacent</p>	Condition of Approval	Implementation and Plan Approval	Prior to Construction (approximately 30 days prior to construction)	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	streets via clearly marked detours and notice shall be provided in advance to applicable parties (nearby residences, emergency service providers, public transit and bus operators, businesses, and organizers of special events). The TCP shall identify proposed closure schedules and detour routes, as well as construction traffic routes, including haul truck routes, and preferred delivery/haul-out location and hours to avoid heavily congested areas during peak hours, where feasible.					
<p>Tribal Cultural Resources <i>Mitigation Measure TCR-1, MM TCR-2, and MM TCR-3 were provided by the Gabrieleño Band of Mission Indians – Kizh Nation and apply to the monitoring and treatment by this tribe.</i></p>						
MM TCR-1	<p>Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any “ground-disturbing activity” for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as</p>	Condition of Approval	Retention of Native American Monitor, as Necessary	Prior to Ground Disturbing Activities, Prior to Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>public improvement work). “Ground-disturbing activity” shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.</p> <p>A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.</p> <p>The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or “TCR”), as well as any discovered Native American (ancestral) human remains and burial</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.</p> <p>On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.</p>					
MM TCR-2	<p>Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial).</p> <p>Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and</p>	Condition of Approval	Native American Monitoring, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe’s sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.					
MM TCR-3	<p>Unanticipated Discovery of Human Remains and Associated Funerary or Ceremonial Objects.</p> <p>Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.</p> <p>If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resource Code 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed.</p> <p>Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).</p>	Condition of Approval	Native American Monitoring, as Necessary	During Construction	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods.</p> <p>Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.</p>					
<p>Tribal Cultural Resources <i>Mitigation Measure TCR-4, MM TCR-5, and MM TCR-6 were provided by the Gabrielino Tongva Indians of California (GTIOC) and apply to the monitoring and treatment by this tribe.</i></p>						
<p>MM TCR-4</p>	<p>Retain a Native American Monitor. A qualified and certified indigenous tribal member of Gabrielino Tongva Indians of California (GTIOC) and direct lineal descendant of the project site (NAGPRA section 10.14) to provide the professional Native American Monitoring required for only the ground disturbing activity on the site. Ground disturbances including but not limited to the removal of asphalt/cement/slurry, trenching, boring, excavation, auguring, grubbing, tree removal, grading and drilling will be monitored. The Tribal Monitor will only be required on site when these ground disturbing activities occur.</p> <p>The GTIOC monitor will be responsible for observing all mechanical and hand labor excavations to include paddle</p>	<p>Condition of Approval</p>	<p>Retention of Native American Monitor, as Necessary</p>	<p>Prior to Ground Disturbing Activities, During Ground Disturbing Activities</p>	<p>Long Beach Utilities Department</p>	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>scrapers, blade machines, front-end loaders, back hoe, boring and drill operations as well as hydraulic and electric chisels. Associated work using tools such as picks and other non-electric or gasoline tools that are not regarded as mechanical will be monitored for their soil disturbances.</p> <p>Soils that are removed from the work site are considered culturally sensitive and are subject to inspection. These soils whether placed in a dump truck or spots piles are to be inspected. The monitor will temporarily hold excavations until a determination is made on the sensitivity of the of the soil. If the soils are sensitive, an archeological monitor will verify the find and notify site supervisor.</p> <p>If any archaeological or paleontological, or cultural deposits, are discovered, including but not limited grave related artifacts, artifacts of traditional cultural, religious, or spiritual sites, or any other artifacts relating to the use or habitation sites, all construction shall cease within at least 50 feet of the discovery and held until the proper authorities are contacted.</p> <p>The GTIOC monitor may make recommendations during the course of</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>the project when a cultural area has been impacted. The GTIOC monitor will be authorized to halt or redirect excavation activities to another area as an assessment is made. Both archeological and GTIOC will work together to insure that the area is warranted as being culturally sensitive before a determination is made. Avoidance and directing an alternative route from this culturally sensitive area is highly recommended.</p> <p>Any artifacts associated within the site that are not associated with any burials are subject to collection by the designated archaeologist for purposes of data and information vital for their final report. The GTIOC monitor does not collect artifacts for any reason. Unauthorized removal of artifacts will jeopardize sites orientation and successful data recovery. Only a qualified archeologist will remove artifacts for their reports. The land owner will work with the GTIOC monitor to ensure that a proper repository is established. A final report will be issued to the cultural consultant by the archeological company.</p> <p>It is the sole responsibility of the GTIOC monitor to provide the client with a</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>written daily field report that includes photos of his/her accounting of the soil disturbances of the daily activities. This perspective of the daily activities by the GTIOC monitor will enhance the information gathered by the field archeologist. The daily report will include observations the GTIOC visually observed the project site at the beginning of each work day (i.e. weather conditions, overnight disturbances). Written daily monitoring reports will include daily observations on surface soil as well as disturbed soil. Photographic documentation is included in the daily reports. When project is completed, GTIOC will certify that work performed was done so within compliance of AB52 and SB18 within 5 days of completion of the Native American monitoring aspect of the project.</p>					
<p>MM TCR-5</p>	<p>Procedures for the treatment and disposition of human remains and associated grave goods at Gabrielino Tongva ancestral sites. Treatment plan for human remain discovery. The immediate cessation of work in the immediate vicinity will be implemented. The county coroner will be immediately contacted. California</p>	<p>Condition of Approval</p>	<p>Native American Monitoring, as Necessary</p>	<p>During Construction</p>	<p>Long Beach Utilities Department</p>	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>Health and Safety Code Sec. 7050.5 (a) Every person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated cemetery without authority of law is guilty of a misdemeanor, except as provided in Section 5097.99 of the Public Resources Code.</p> <p>The county coroner and law enforcement, will evaluate and make a determination and a formal review of the find. The county coroner has the legal responsibility for determining whether or not the remains are native indigenous people.</p> <p>If it is established that the remains are of native indigenous people, the coroner has 24 hours to contact the Native American Heritage Commission (NAHC).</p> <p>A Most Likely Descendent (MLD) will be assigned by the NAHC to ensure the ancestor(s) will be treated with dignity and respect and shall complete their inspection and make recommendations or preferences for treatment within 48 hours (California Public Resources Code Sec. 5097.98).</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p><i>***The MLD may not be a Native American Monitor assigned to monitor the site where human remains were unearthed. GTIOC deems that to be a conflict of interest.***</i></p> <p>A certified osteologist will be retained to verify the human remains authenticity and work to help remove the ancestor(s) from the site area with the discretion and advise from the MLD. The GTIOC monitor(s) assigned to the project will assist the osteologist and archeological monitors in the recovery process. The MLD will determine where the ancestors will be housed pending a final decision for the reinterment of the ancestor(s).</p> <p>Confidentiality. Any and all information provided about the location of an archeological or sacred site by our GTIOC cultural consultant will not be disclosed reproduced both digitally or on paper. Furthermore, the location must not be published for public viewing which includes any reports either preliminary or final and must be kept confidential to maintain the integrity and compliance of the archeological or sacred site.</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
MM TCR-6	<p>Recovery and Reburial Procedures. The Gabrielino Tongva Indians of California (GTIOC) has a goal to ensure your project falls under the compliancy guidelines that have been established by Assembly Bill 52. GTIOC is recognized by the Native American Heritage Commission and is fully qualified for the intricacies of Recovery and Reburial. In addition, we want to preserve our family’s human remains and associated grave goods at ancestral sites while engaging in a meaningful and productive relationship with your team. We appreciate the opportunity to work with you in accomplishing the aforementioned.</p> <p>Specific methods of recovery and reburial procedures have been developed and adopted by the Gabrielino Tongva Indians of California and are required to adhere to when recovering Gabrielino Tongva remains. Conditions may arise where altering some of these guidelines will be considered. Consultation with the Most Likely Descendant (MLD) and the GTIOC monitor(s) assigned to the site should then be scheduled to determine other procedures that may be acceptable to</p>	Condition of Approval	Native American Monitoring, as Necessary	Prior to Ground Disturbing Activities, During Ground Disturbing Activities	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>the Gabrielino Tongva Indians of California Nation.</p> <p>Excavation:</p> <ol style="list-style-type: none"> 1. Consultation between the MLD and the archeological firm must take place before the the recovery of the remains and during the process of extraction. 2. A 50 foot perimeter for each uncovered burial will be required to safeguard further destruction until the area is examined for additional remains and associated grave goods. 3. In the event blade machines are operating in an adjacent area, a maximum of 2” cuts or less will be permitted in all cultural areas. 4. If more than one area is being excavated for extraction of remains simultaneously, an additional GTIOC must be required. Each excavated burial will be monitored exclusively. 5. Wooden tools are preferred for process of recovery; electric chisels and other power tools should be avoided. 					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>6. If remains are pedestaled, they will be placed on plywood for removal. If remains cannot be pedestaled due to soil conditions, remains just be carefully placed in cloth bags.</p> <p>7. Soils adjacent to burials will be saved for reburial in plastic containers.</p> <p>8. No photography (both film and digital) or video is allowed to be taken of the remains or the site. Drawings of remains are permitted to retain the orientation of the ancestors for reinterment purposes only. Coroner photographs of the remains may not be published for any purpose.</p> <p>Testing:</p> <p>1. DNA testing cannot be undertaken.</p> <p>2. No invasive testing which would compromise the integrity of the remains is permitted.</p> <p>3. Macroscopic analysis is permitted.</p> <p>4. Any associated grave goods (such as shell) may be used for dating purposes of each burial.</p> <p>5. When remains are unearthed, the 1'X 1' test pits will be allowed to</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>establish the extent of the burial area when necessary.</p> <p>6. All windrows within a 50 foot area must be screened (either wet or dry).</p> <p>Storage:</p> <ol style="list-style-type: none"> 1. Natural cotton bags and sheeting or cotton drop cloths will be used to store remains until the time of reinterment. Deer or other native hides may be used to cover the bagged and wrapped remains until the reburial and may become the burial wrapping. 2. Bone fragments are also subject to be bagged in cotton. 3. Until the scope of the project is completed, storage of ancestors should be done in close proximity to location of excavation or protected area must be provided by landowner or archeologist. <p>Reburial:</p> <ol style="list-style-type: none"> 1. Efforts should be made to keep the remains within the same location or in close proximity to the removal site as possible. It is preferable to repatriate the remains within a 1/2 mile radius of the original grave 					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>site. If it is not possible to identify a proper location within the 1/2 mile radius, a secure location will be valued over distance.</p> <p>2. If the preponderance of remains is uncovered in or excavated from one area, the reinterment should be in that area.</p> <p>3. The reburial site should offer the best long-term protection against any additional disturbances.</p> <p>4. Each reburial requires approximately 4' X 5 1/2' when fully articulated and should be at a depth of 6-10 feet. The purpose of this depth is to ensure difficulty in disturbing the reburial and to allow adequate room for capping if necessary.</p> <p>5. Any isolated bone fragments uncovered on site may be buried together in an individual burial pit with indigenous animal skins, sea weed, or the cotton cloth used for all bagged fragments.</p> <p>6. All associated grave goods and artifacts along with soils will be buried together with the ancestors.</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>7. No drawings of any other images of ancestral remains may be used for publication without consultation and the approval of the GTIOC monitors and appointed MLD for the site.</p> <p>Costs:</p> <ol style="list-style-type: none"> 1. The landowner(s) will be responsible for all costs related to the proper storage and reburial of remains excavated on their property to include all burial materials as required in these procedure guidelines. 2. Landowner(s) will be financially responsible for providing reburial plots that are acceptable by the MLD. 					
<p>Tribal Cultural Resources <i>Mitigation Measure TCR-7 was agreed to by the Juaneno Band of Mission Indians Acjachemen Nation – Belardes and apply to the monitoring and treatment by this tribe.</i></p>						
MM TCR-7	<p>Native American Monitoring. A Native American monitor from the tribe or tribes identified as a consulting party for the project under AB 52 shall be present during all earth-moving construction activities. The Native American monitor shall be given the opportunity to participate in the cultural resources sensitivity training</p>	Condition of Approval	Retention of Native American Monitor, as Necessary	Prior to Ground Disturbing Activities, During Ground Disturbing Activities	Long Beach Utilities Department	

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>described in the CUL-1 mitigation measure. At least 30 days prior to issuance of grading permits by the City of Long Beach for each of the individual sites and any off-site improvements, a Native American Monitoring Agreement (Monitoring Agreement) shall be developed between the City and responsible agency, as applicable, and the consulting party. The Monitoring Agreement shall pertain to prehistoric archaeological resources and Tribal cultural resources, respectively, and shall identify any monitoring requirements and treatment of cultural resources to meet both the requirements of CEQA and those of the Tribal representative. The Monitoring Agreement shall also address communication protocols in the event of an unanticipated discovery of cultural materials, and the roles, responsibilities, and authorities of the Native American Monitor. The Monitoring Agreement shall also detail the protocols for treatment and final disposition of any Native American cultural resources, sacred sites, and human remains discovered on the site that the Native American Monitor shall implement in consultation and coordination with the Native American</p>					

No.	Mitigation Measure	Implementation Action	Method of Verification	Timing of Verification	Responsible Person	Verification Date
	<p>Most Likely Descendant, as identified by the NAHC. In accordance with the mitigation measure below, discovery and treatment of human remains shall comply with State Health and Safety Code Section 7050.5 and PRC Section 5097.98.</p>					

APPENDIX H
AB 52 Consultation Summary Information

Long Beach Utilities Department
Los Angeles Department of Water and Power Haynes Generating Station Recycled Water Pipeline Project
AB 52 Consultation Summary Information

CEQA Jurisdiction (CA)	Tribal Entity	AB 52 Letter Tribal Recipient(s)	Date/Location of Correspondence Meeting	Tribal Representative Name	Tribal Representative Comments	Outcome of Meeting-Responsible Entity(ies) and Further Action(s) Needed	Action Status (including anticipated completion date) OR Action Completed (Entity and Dates)
Long Beach	Gabrieleno Band of Mission Indians - Kizh Nation	Andrew Salas, Chairperson P.O. Box 393 Covina, CA, 91723 Phone: (626) 926 - 4131 admin@gabrielenoindians.org	04/06/2023 – AB-52 Consultation letter 04/06/2023 – e-mail with letter 04/12/2023 – e-mail 07/13/2023 – meeting (virtual)	Andrew Salas Andrew Salas Admin Specialist, Gabrieleno Band of Mission Indians Andrew Salas	 04/06/2023 letter from Mr. Salas requested to schedule consultation meeting with City of Long Beach. 04/12/2023 e-mail from Admin Specialist requesting confirmation of meeting scheduled for July 13, 2023, at 1:00 pm Mr. Salas stated during the 07/13/2023 meeting that the mitigation measures included in the AB 52 consultation letter were adequate.	04/06/2023: meeting to be scheduled by Long Beach 07/13/2023 meeting: mitigation measure(s) need to be added to IS/MND to address the need for the presence of a Native American Monitor during ground disturbing activities and to outline protocols for inadvertent discoveries encountered by Native American monitors during construction.	ALL COMMENTS ADDRESSED; MM TCR-1: Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities, MM TCR-2: Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial), and MM TCR-3: Unanticipated Discovery of Human Remains and Associated Funerary or Ceremonial Objects, added to Section 4.18, Tribal Cultural Resources. MM CUL-1, Retention of Qualified Archaeologist and Worker Training, was also added to Section 4.5, Cultural Resources. MM CUL-2 and MM CUL-3 also updated to include language specified in AB 52 letter regarding treatment/disposition of human remains. (AZTEC, 1/4/2024)
Long Beach	Gabrieleno/Tongva San Gabriel Band of Mission Indians	Anthony Morales, Chairperson P.O. Box 693 San Gabriel, CA, 91778 Phone: (626) 483-3564 Fax: (626) 286-1262 GTTribalcouncil@aol.com	04/06/2023 – AB 52 consultation letter	N/A	N/A	N/A	N/A

Long Beach Utilities Department
Los Angeles Department of Water and Power Haynes Generating Station Recycled Water Pipeline Project
AB 52 Consultation Summary Information

CEQA Jurisdiction (CA)	Tribal Entity	AB 52 Letter Tribal Recipient(s)	Date/Location of Correspondence Meeting	Tribal Representative Name	Tribal Representative Comments	Outcome of Meeting-Responsible Entity(ies) and Further Action(s) Needed	Action Status (including anticipated completion date) OR Action Completed (Entity and Dates)
Long Beach	Gabrielino/Tongva Nation	Sandonne Goad, Chairperson 106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012 Phone: (951) 807-0479 sgoad@gabrielino-tongva.com	04/06/2023 – AB 52 consultation letter	N/A	N/A	N/A	N/A
Long Beach	Gabrielino Tongva Indians of California Tribal Council (GTIOC)	Robert Dorame, Chairperson P.O. Box 490 Bellflower, CA, 90707 Phone: (562) 761 - 6417 Fax: (562) 761-6417 gtongva@gmail.com Christina Conley, Tribal Consultant and Administrator P.O. Box 941078 Simi Valley, CA, 93094 Phone: (626) 407-8761 christina.marsden@alumni.usc.edu	04/06/2023 – AB 52 consultation letter 04/13/2023 – meeting (virtual) 04/14/2023 – e-mail	Christina Conley Christina Conley	Ms. Conley stated during the 04/13/2023 meeting that the mitigation measures included in the AB 52 consultation letter were adequate. Follow-up e-mail from Ms. Conley (04/14/2023) included the GTIOC Tribal Cultural Resources Treatment Plan (TCRP) and specified that a monitoring rotation can be implemented in cases where multiple tribes have requested the presence of a Native American monitor during ground disturbing activities.	04/13/2023 meeting: Mitigation measure needs to be added to IS/MND to address the need for the presence of a Native American Monitor during ground disturbing activities, following protocol outlined in the GTIOC TCRP 04/14/2023 e-mail: add information to mitigation measure regarding implementation of a monitoring rotation and include pertinent language from GTIOC TCRP.	ALL COMMENTS ADDRESSED; MM TCR-4: Retain a Native American Monitor, MM TCR-5: Procedures for the treatment and disposition of human remains and associated grave goods at Gabrielino Tongva ancestral sites, and MM TCR-6: Recovery and Reburial Procedures, added to Section 4.18, Tribal Cultural Resources. MM CUL-1, Retention of Qualified Archaeologist and Worker Training, was also added to Section 4.5, Cultural Resources. MM CUL-2 and MM CUL-3 also updated to include language specified in AB 52 letter regarding treatment/disposition of human remains. (AZTEC, 1/4/2024)

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CEQA Jurisdiction (CA)	Tribal Entity	AB 52 Letter Tribal Recipient(s)	Date/Location of Correspondence Meeting	Tribal Representative Name	Tribal Representative Comments	Outcome of Meeting-Responsible Entity(ies) and Further Action(s) Needed	Action Status (including anticipated completion date) OR Action Completed (Entity and Dates)
Long Beach	Gabrielino-Tongva Tribe	Charles Alvarez 23454 Vanowen Street West Hills, CA, 91307 Phone: (310) 403-6048 roadkingcharles@aol.com	04/06/2023 – AB 52 consultation letter 04/13/2023 – meeting (virtual) 04/14/2023 – closing consultation letter/e-mail	Charles Alvarez Charles Alvarez Charles Alvarez	 Mr. Alvarez stated during the 04/13/2023 meeting that the mitigation measures included in the AB 52 consultation letter were adequate. Mr. Alvarez provided GTIOC TCRP as part of closing consultation.	04/13/2023 meeting: mitigation measure(s) need to be added to IS/MND to address the need for the presence of a Native American Monitor during ground disturbing activities and to outline protocols for inadvertent discoveries encountered by Native American monitors during construction.	ALL COMMENTS ADDRESSED; MM TCR-1 through MM TCR-7 added to Section 4.18, Tribal Cultural Resources. MM CUL-1, Retention of Qualified Archaeologist and Worker Training, was also added to Section 4.5, Cultural Resources. MM CUL-2 and MM CUL-3 also updated to include language specified in AB 52 letter regarding treatment/disposition of human remains. (AZTEC, 1/4/2024)
Long Beach	Juaneno Band of Mission Indians Acjachemen Nation - Belardes	Matias Belardes, Chairperson 32161 Avenida Los Amigos San Juan Capistrano, CA, 92675 Phone: (949) 293-8522 kaamalam@gmail.com Joyce Perry, Tribal Manager 4955 Paseo Segovia Irvine, CA, 92603 Phone: (949) 293-8522 kaamalam@gmail.com	04/06/2023 – AB 52 consultation letter 04/28/2023 – e-mail 05/30/2023 – e-mail	Joyce Perry Joyce Perry Joyce Perry	 Initial response e-mail from Ms. Perry (04/28/2023) requested a copy of the CHRIS records search results, and requested the “retention of a monitor representing the Juaneno Band of Mission Indians, Acjachemen Nation – Belardes” due to sensitivity of the area to the tribe. Ms. Perry responded via e-mail on 05/30/2023 and reiterated the request for a mitigation measure requiring	04/28/2023 e-mail: Mitigation measure(s) need to be added to IS/MND to address the need for the presence of a Native American Monitor from the Juaneno Band of Mission Indians, Acjachemen Nation – Belardes tribe during ground disturbing activities; City of Long Beach to send CHRIS records search results for Sewer Project, no request was made for CHRIS records for HGS RW Project. 05/30/2023 e-mail: mitigation measure(s) need to be added to IS/MND to address the need for	ALL COMMENTS ADDRESSED; CHRIS records search results were conveyed on May 10, 2023 for Sewer Project. MM TCR-7: Native American Monitoring, added to Section 4.18, Tribal Cultural Resources. MM CUL-1, Retention of Qualified Archaeologist and Worker Training, was also added to Section 4.5, Cultural Resources. MM CUL-2 and MM CUL-3 also updated to include language specified in AB 52 letter regarding treatment/disposition of human remains. (AZTEC, 1/4/2024)

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CEQA Jurisdiction (CA)	Tribal Entity	AB 52 Letter Tribal Recipient(s)	Date/Location of Correspondence Meeting	Tribal Representative Name	Tribal Representative Comments	Outcome of Meeting-Responsible Entity(ies) and Further Action(s) Needed	Action Status (including anticipated completion date) OR Action Completed (Entity and Dates)
					the presence of a Native American (Juaneno) monitor.	the presence of a Native American Monitor during ground disturbing activities.	
Long Beach	Juaneno Band of Mission Indians Acjachemen Nation 84A	Heidi Lucero, Chairperson 31411-A La Matanza Street San Juan Capistrano, CA, 92675 Phone: (562) 879-2884 hlucero105@gmail.com	04/06/2023 – AB 52 consultation letter	N/A	N/A	N/A	N/A
Long Beach	Santa Rosa Band of Cahuilla Indians	Lovina Redner, Tribal Chair P.O. Box 391820 Anza, CA, 92539 Phone: (951) 659 - 2700 Fax: (951) 659-2228 lsaul@santarosa-nsn.gov	04/06/2023 – AB 52 consultation letter	N/A	N/A	N/A	

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CEQA Jurisdiction (CA)	Tribal Entity	AB 52 Letter Tribal Recipient(s)	Date/Location of Correspondence Meeting	Tribal Representative Name	Tribal Representative Comments	Outcome of Meeting-Responsible Entity(ies) and Further Action(s) Needed	Action Status (including anticipated completion date) OR Action Completed (Entity and Dates)
Long Beach	Soboba Band of Luiseno Indians	Isaiah Vivanco, Chairperson P. O. Box 487 San Jacinto, CA, 92581 Phone: (951) 654-5544 Fax: (951) 654-4198 ivivanco@soboba-nsn.gov Joseph Ontiveros, Cultural Resource Department P.O. BOX 487 San Jacinto, CA, 92581 Phone: (951) 663-5279 Fax: (951) 654-4198 jontiveros@soboba-nsn.gov	04/06/2023 – AB 52 consultation letter	N/A	N/A	N/A	N/A
Seal Beach*	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES

*Seal Beach confirmed the AB 52 list for the Project’s Area of Potential Effect was sufficient. No other tribal entities under Seal Beach jurisdiction were included as part of the Project’s AB 52 consultation.

In accordance with the mitigation measures included in the AB 52 consultation letters and the results of AB 52 consultation, the following measures were incorporated into Sections 4.5 (MM CUL-1 through MM CUL-3) and 4.18 (MM TCR-1 through MM TCR-7) of the IS/MND (dated1/4/2024):

MM CUL-1: Retention of Qualified Archaeologist and Worker Training. Prior to the issuance of a grading permit by the City of Long Beach, evidence shall be provided to the City and responsible agencies that a qualified archaeologist meeting the Secretary of the Interior’s Standards for professional archaeology (U.S. Secretary of the Interior 2008) has been retained by the Applicant to conduct any required training, evaluation, or treatment of archaeological resources that might be encountered during implementation of the project. As part of this, prior to the start of grading, the qualified archaeologist shall conduct cultural resources sensitivity training for all construction personnel. Construction personnel must be informed of the types of archaeological resources that may be encountered (both prehistoric and historical), and of the proper procedures to be enacted in the event of an inadvertent discovery of archaeological resources or human remains. The Applicant must ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance. This documentation shall be made available to the City upon request.

MM CUL-2: Treatment of Human Remains. In accordance with California Health and Safety Code Section 7050.5, if human remains are found, the Los Angeles County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains (100 feet or as determined by the project archaeologist) shall occur until the procedures set forth in this measure have been implemented. If the County Coroner determines that the remains are, or are believed to be, Native American, the Coroner shall notify the Native American Heritage Commission (NAHC) within 24 hours. In accordance with California PRC Section 5097.98, the NAHC must immediately notify those persons it believes to be the Most Likely Descendant (MLD) from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.

MM CUL-3: Archaeological Resource and/or Tribal Cultural Resource Discovery and Treatment. In the event of the unanticipated discovery of archaeological or other cultural resources, whether discovered through Native American monitoring or not, all work activities in the area (within approximately 100 feet of the discovery) shall be halted or redirected until the discovery can be evaluated by a qualified archaeologist. Construction shall not resume until a qualified archaeologist has conferred with the City and responsible agencies and, in the case of prehistoric archaeological resources and tribal cultural resources, the Native American monitor, on the significance of the resource. If it is determined that the discovered archaeological resource and/or tribal cultural resource is significant under CEQA, avoidance and preservation in place shall be the preferred manner of mitigation, pursuant to PRC Section 21083.2(b) and Section 21084.3. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, capping, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, a Treatment Plan shall be prepared and implemented by a qualified archaeologist, in consultation with the City, that

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provides for the adequate recovery of the scientifically consequential information contained in the archaeological resource or cultural information in the event of a tribal cultural resource. The City shall also consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources to ensure cultural values ascribed to the resources, beyond those that are scientifically important, are considered. Any evaluation and treatment shall be supervised by an individual or individuals that meet the Secretary of the Interior's Professional Qualification Standards.

Mitigation measure TCR-1, MM TCR-2, and MM TCR-3 were provided by the Gabrieleño Band of Mission Indians – Kizh Nation and apply to the monitoring and treatment by this tribe:

MM TCR-1: Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.

A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.

The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.

On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.

MM TCR-2: Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial). Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.

MM TCR-3: Unanticipated Discovery of Human Remains and Associated Funerary or Ceremonial Objects. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.

If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resource Code 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed.

Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).

Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods.

Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

Mitigation measure TCR-4, MM TCR-5, and MM TCR-6 were provided by the Gabrielino Tongva Indians of California (GTIOC) and apply to the monitoring and treatment by this tribe:

MM TCR-4: Retain a Native American Monitor. A qualified and certified indigenous tribal member of Gabrielino Tongva Indians of California (GTIOC) and direct lineal descendant of the project site (NAGPRA section 10.14) to provide the professional Native American Monitoring required for only the *ground disturbing activity* on the site. Ground disturbances including but not limited to the removal of asphalt/cement/slurry, trenching, boring, excavation, auguring, grubbing, tree removal, grading and drilling will be monitored. The Tribal Monitor will only be required on site when these ground disturbing activities occur.

The GTIOC monitor will be responsible for observing all mechanical and hand labor excavations to include paddle scrapers, blade machines, front-end loaders, back hoe, boring and drill operations as well as hydraulic and electric chisels. Associated work using tools such as picks and other non-electric or gasoline tools that are not regarded as mechanical will be monitored for their soil disturbances.

Soils that are removed from the work site are considered culturally sensitive and are subject to inspection. These soils whether placed in a dump truck or spots piles are to be inspected. The monitor will temporarily hold excavations until a determination is made on the sensitivity of the soil. If the soils are sensitive, an archeological monitor will verify the find and notify site supervisor.

If any archaeological or paleontological, or cultural deposits, are discovered, including but not limited grave related artifacts, artifacts of traditional cultural, religious, or spiritual sites, or any other artifacts relating to the use or habitation sites, all construction shall cease within at least 50 feet of the discovery and held until the proper authorities are contacted.

The GTIOC monitor may make recommendations during the course of the project when a cultural area has been impacted. The GTIOC monitor will be authorized to halt or redirect excavation activities to another area as an assessment is made. Both archeological and GTIOC will work together to insure that the area is warranted as being culturally sensitive before a determination is made. Avoidance and directing an alternative route from this culturally sensitive area is highly recommended.

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Any artifacts associated within the site that are not associated with any burials are subject to collection by the designated archaeologist for purposes of data and information vital for their final report. The GTIOC monitor does not collect artifacts for any reason. Unauthorized removal of artifacts will jeopardize sites orientation and successful data recovery. Only a qualified archeologist will remove artifacts for their reports. The land owner will work with the GTIOC monitor to ensure that a proper repository is established. A final report will be issued to the cultural consultant by the archeological company.

It is the sole responsibility of the GTIOC monitor to provide the client with a written daily field report that includes photos of his/her accounting of the soil disturbances of the daily activities. This perspective of the daily activities by the GTIOC monitor will enhance the information gathered by the field archeologist. The daily report will include observations the GTIOC visually observed the project site at the beginning of each work day (i.e. weather conditions, overnight disturbances). Written daily monitoring reports will include daily observations on surface soil as well as disturbed soil. Photographic documentation is included in the daily reports. When project is completed, GTIOC will certify that work performed was done so within compliance of AB52 and SB18 within 5 days of completion of the Native American monitoring aspect of the project.

MM TCR-5: Procedures for the treatment and disposition of human remains and associated grave goods at Gabrielino Tongva ancestral sites. Treatment plan for human remain discovery. The immediate cessation of work in the immediate vicinity will be implemented. The county coroner will be immediately contacted. California Health and Safety Code Sec. 7050.5 (a) Every person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated cemetery without authority of law is guilty of a misdemeanor, except as provided in Section 5097.99 of the Public Resources Code.

The county coroner and law enforcement, will evaluate and make a determination and a formal review of the find. The county coroner has the legal responsibility for determining whether or not the remains are native indigenous people. If it is established that the remains are of native indigenous people, the coroner has 24 hours to contact the Native American Heritage Commission (NAHC).

A Most Likely Descendent (MLD) will be assigned by the NAHC to ensure the ancestor(s) will be treated with dignity and respect and shall complete their inspection and make recommendations or preferences for treatment within 48 hours (California Public Resources Code Sec. 5097.98).

****The MLD may not be a Native American Monitor assigned to monitor the site where human remains were unearthed. GTIOC deems that to be a conflict of interest.****

A certified osteologist will be retained to verify the human remains authenticity and work to help remove the ancestor(s) from the site area with the discretion and advise from the MLD. The GTIOC monitor(s) assigned to the project will assist the osteologist and archeological monitors in the recovery process. The MLD will determine where the ancestors will be housed pending a final decision for the reinterment of the ancestor(s).

Confidentiality. Any and all information provided about the location of an archeological or sacred site by our GTIOC cultural consultant will not be disclosed reproduced both digitally or on paper. Furthermore, the location must not be published for public viewing which includes any reports either preliminary or final and must be kept confidential to maintain the integrity and compliance of the archeological or sacred site.

MM TCR-6: Recovery and Reburial Procedures. The Gabrielino Tongva Indians of California (GTIOC) has a goal to ensure your project falls under the compliancy guidelines that have been established by Assembly Bill 52. GTIOC is recognized by the Native American Heritage Commission and is fully qualified for the intricacies of Recovery and Reburial. In addition, we want to preserve our family's human remains and associated grave goods at ancestral sites while engaging in a meaningful and productive relationship with your team. We appreciate the opportunity to work with you in accomplishing the aforementioned.

Specific methods of recovery and reburial procedures have been developed and adopted by the Gabrielino Tongva Indians of California and are required to adhere to when recovering Gabrielino Tongva remains. Conditions may arise where altering some of these guidelines will be considered. Consultation with the Most Likely Descendant (MLD) and the GTIOC monitor(s) assigned to the site should then be scheduled to determine other procedures that may be acceptable to the Gabrielino Tongva Indians of California Nation.

Excavation:

1. Consultation between the MLD and the archeological firm must take place before the recovery of the remains and during the process of extraction.
2. A 50 foot perimeter for each uncovered burial will be required to safeguard further destruction until the area is examined for additional remains and associated grave goods.
3. In the event blade machines are operating in an adjacent area, a maximum of 2" cuts or less will be permitted in all cultural areas.
4. If more than one area is being excavated for extraction of remains simultaneously, an additional GTIOC must be required. Each excavated burial will be monitored exclusively.
5. Wooden tools are preferred for process of recovery; electric chisels and other power tools should be avoided.
6. If remains are pedestaled, they will be placed on plywood for removal. If remains cannot be pedestaled due to soil conditions, remains just be carefully placed in cloth bags.
7. Soils adjacent to burials will be saved for reburial in plastic containers.
8. No photography (both film and digital) or video is allowed to be taken of the remains or the site. Drawings of remains are permitted to retain the orientation of the ancestors for reinterment purposes only. Coroner photographs of the remains may not be published for any purpose.

Testing:

1. DNA testing cannot be undertaken.
2. No invasive testing which would compromise the integrity of the remains is permitted.

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3. Macroscopic analysis is permitted.
4. Any associated grave goods (such as shell) may be used for dating purposes of each burial.
5. When remains are unearthed, the 1'X 1' test pits will be allowed to establish the extent of the burial area when necessary.
6. All windrows within a 50 foot area must be screened (either wet or dry).

Storage:

1. Natural cotton bags and sheeting or cotton drop cloths will be used to store remains until the time of reinterment. Deer or other native hides may be used to cover the bagged and wrapped remains until the reburial and may become the burial wrapping.
2. Bone fragments are also subject to be bagged in cotton.
3. Until the scope of the project is completed, storage of ancestors should be done in close proximity to location of excavation or protected area must be provided by landowner or archeologist.

Reburial:

1. Efforts should be made to keep the remains within the same location or in close proximity to the removal site as possible. It is preferable to repatriate the remains within a 1/2 mile radius of the original grave site. If it is not possible to identify a proper location within the 1/2 mile radius, a secure location will be valued over distance.
2. If the preponderance of remains is uncovered in or excavated from one area, the reinterment should be in that area.
3. The reburial site should offer the best long-term protection against any additional disturbances.
4. Each reburial requires approximately 4' X 51/2' when fully articulated and should be at a depth of 6-10 feet. The purpose of this depth is to ensure difficulty in disturbing the reburial and to allow adequate room for capping if necessary.
5. Any isolated bone fragments uncovered on site may be buried together in an individual burial pit with indigenous animal skins, sea weed, or the cotton cloth used for all bagged fragments.
6. All associated grave goods and artifacts along with soils will be buried together with the ancestors.
7. No drawings of any other images of ancestral remains may be used for publication without consultation and the approval of the GTIOC monitors and appointed MLD for the site.

Costs:

1. The landowner(s) will be responsible for all costs related to the proper storage and reburial of remains excavated on their property to include all burial materials as required in these procedure guidelines.
2. Landowner(s) will be financially responsible for providing reburial plots that are acceptable by the MLD.

Mitigation measure TCR-7 was agreed to by the Juaneno Band of Mission Indians Acjachemen Nation – Belardes and apply to the monitoring and treatment by this tribe:

MM TCR-7: Native American Monitoring. A Native American monitor from the tribe or tribes identified as a consulting party for the project under AB 52 shall be present during all earth-moving construction activities. The Native American monitor shall be given the opportunity to participate in the cultural resources sensitivity training described in the CUL-1 mitigation measure. At least 30 days prior to issuance of grading permits by the City of Long Beach for each of the individual sites and any off-site improvements, a Native American Monitoring Agreement (Monitoring Agreement) shall be developed between the City and responsible agency, as applicable, and the consulting party. The Monitoring Agreement shall pertain to prehistoric archaeological resources and Tribal cultural resources, respectively, and shall identify any monitoring requirements and treatment of cultural resources to meet both the requirements of CEQA and those of the Tribal representative. The Monitoring Agreement shall also address communication protocols in the event of an unanticipated discovery of cultural materials, and the roles, responsibilities, and authorities of the Native American Monitor. The Monitoring Agreement shall also detail the protocols for treatment and final disposition of any Native American cultural resources, sacred sites, and human remains discovered on the site that the Native American Monitor shall implement in consultation and coordination with the Native American Most Likely Descendant, as identified by the NAHC. In accordance with the mitigation measure below, discovery and treatment of human remains shall comply with State Health and Safety Code Section 7050.5 and PRC Section 5097.98.